

ADAMA



Cohort[®]



MAPP 15035

A suspension concentrate containing 400 g/l (35.3% w/w) propyzamide.

A herbicide for residual control of a wide range of grass and broad-leaved weeds in winter oilseed rape, winter field beans, fodder brassicas (seed crops), clover (seed crops), sugar beet (seed crops), lettuce (outdoor), lucerne, rhubarb (outdoor), top fruit, soft fruit, forestry, ornamentals and amenity vegetation.

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



Warning

**Suspected of causing cancer.
Toxic to aquatic life with long lasting effects.**

**Contains 1,2-benzisothiazolin-3-one.
May produce an allergic reaction.**
Keep out of reach of children.

Obtain special instructions before use.
Wear protective gloves/protective clothing/eye protection/face protection.
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.

ADAMA AGRICULTURAL SOLUTIONS UK LTD

Unit 15, Thatcham Business Village, Colthrop Way, Thatcham, Berkshire, RG19 4LW
Telephone: (01635) 860555 Technical Helpline: (01635) 876622

For advice on medical emergencies, fires or major spills telephone the National Chemical Emergency Centre on 01865 407333

Batch No: see packaging

**SHAKE WELL BEFORE USE
PROTECT FROM FROST**

10 litres e

To access the Safety Data Sheet for this product scan the QR code or use the weblink: <http://goo.gl/V8FqOg> – Alternatively, contact your supplier.

Scan for
Safety Data
Sheet



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the National Chemical Emergency Centre on 01865 407333

IMPORTANT INFORMATION

FOR PROFESSIONAL USE ONLY AS AN AGRICULTURAL/HORTICULTURAL/FORESTRY HERBICIDE

Crop	Maximum individual dose (L product/ha)	Maximum number of applications	Latest time of application
Oilseed rape (winter), sugar beet (seed crop), field beans (winter)	2.1	One per crop	Before 1st February in year of harvest
Apple, blackberry, blackcurrant, gooseberry, loganberry, pear, plum, raspberry, redcurrant	4.25	One per year	Before 1st February in year of harvest
Rhubarb (outdoor)	4.25	One per year	Before 1st January in year of harvest
Strawberry (outdoor)	3.5	One per year	Before 1st January in year of harvest
Fodder rape (seed crop), kale (seed crop), red clover (seed crop), white clover (seed crop), turnip (seed crop), lucerne	1.75	One per crop	Before 1st February in year of harvest
Lettuce (outdoor)	3.5	One per crop	Six weeks before harvest
Forest, farm forestry, forest nursery, hedgerow	3.75	One per year	-
Amenity vegetation	4.25	One per year	-

Other specific restrictions:

The product may only be applied to edible crops between October 1st and the specified latest time of application. Do not harvest crops for human or animal consumption for at least 6 weeks after last application.

Apply only as a directed spray around trees for forest nursery use.

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.

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 GLOVES when handling the concentrate or 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 HANDS before meals and after work.

Environmental Protection

Do not contaminate water with product or its container.

Do not clean application equipment near surface water.

Avoid contamination via drains from farmyards and roads.

Storage and Disposal

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

EMPTY CONTAINER COMPLETELY and dispose of safely.

STORE IN A COOL DRY PLACE.

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 the product.

CAUTIONS

Avoid overdosing which may cause damage.

Do not apply more than one application of COHORT® to the same area of land within 9 months.

Treated clover, brassicas and sugar beet (grown for seed) must not be used for human or animal consumption.

Consult your processor before using on crops intended for processing.

SOIL AND WEATHER CONDITIONS

COHORT can be used on all soil types except soils with an organic matter content greater than 10%, apart from usage in forestry. On stony or gravelly soils there is a risk of crop damage especially if heavy rain falls soon after application.

Do not use on strawberries or winter field beans grown in certain soil types (see CROP RECOMMENDATIONS AND DOSE RATES).

Soil Texture	
Group	Textural class
Sands	Coarse sand, sand, fine sand, loamy coarse sand
Very light soils	Loamy sand, loamy fine sand, coarse sandy loam
Light Soils	Sandy loam, fine sandy loam, sandy silt loam, silt loam
Medium soils	Sandy clay loam, clay loam, silty clay loam
Heavy soils	Sandy clay, clay, silty clay

Prepare a firm seedbed with fine tilth and preferably moist to allow maximum uptake of COHORT by the weeds. Excessive organic debris or ploughed-up turf may reduce the efficacy of COHORT.

During mild or wet autumn or winter conditions, or if heavy rain occurs shortly after application, emerged weeds may take longer to control and overall control may be reduced. Best results are achieved when weed growth (especially blackgrass and volunteer cereals) is slow but with transpiration occurring.

Application may be made in frosty conditions as long as run-off from the soil surface does not occur.

WEED RESISTANCE MANAGEMENT

Strains of some annual grasses (e.g. blackgrass, wild oats, Italian ryegrass) 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 developed by the Weed Resistance Action Group and copies are available from the HGCA, CPA, your distributor, crop advisor or product manufacturer.

CROP RECOMMENDATIONS AND DOSE RATES

COHORT is a soil acting herbicide providing both pre- and post-emergence weed control. For best results, ensure the weeds are actively growing at the time of application. Emerged weeds may take longer to be controlled.

Weed control key:

S = susceptible, MS = moderately susceptible, MR = moderately resistant, R = resistant

Plant growth stage key:

Germ. = germinating, L = leaves, Estab. = established plant

AGRICULTURAL CROPS

Winter oilseed rape

Dose rate: 1.75 L/ha in 200-1000 L/ha water.

Application timing: 1 October to 31 January.

Crop stage: from 3 true leaves.

All soils with less than 10% organic matter may be treated.

Shallow rooted plants are subject to reduced selectivity.

Weed control at 1.75 L/ha	Germ.	Up to 2 L	Estab.
Annual meadowgrass	S	S	S
Barren brome	S	S	S
Volunteer cereals	S	S	S
Wild oat	S	S	S
Common chickweed	S	S	S ¹
Blackgrass	S	S	MS ²
Black-bindweed	S	S	MR
Black nightshade	S	S	MR
Fat-hen	S	S	MR
Field forget-me-not	MS	MS	R
Knotgrass	S	S	MR
Redshank	S	S	MR
Small nettle	S	S	MR
Speedwells	S	S	MR
Cleavers	MS	MR	R

A reduced dose of 1.25 L/ha may be applied following application of a graminicide for control of volunteer cereals and grass weeds and where common chickweed is not a problem.

Annual meadowgrass	S	S	S
Volunteer cereals	S	S	S
Wild oat	S	S	S
Black-bindweed	S	S	R
Black nightshade	S	S	R
Common chickweed	S	S	R
Fat-hen	S	S	R
Knotgrass	S	S	R
Redshank	S	S	R
Small nettle	S	S	R
Speedwells	S	R	R

Winter field beans

Dose rate: 2.1 L/ha in 200-1000 L/ha water.

Application timing: 1 October to 31 January.

Crop stage: Pre-emergence of crop and within 7 days of planting.

Soil type: Only on medium or heavy soils with less than 10% organic matter.

Weed control at 2.1 L/ha	Germ.	Up to 2 L	Estab.
Annual meadowgrass	S	S	S
Barren brome	S	S	S
Volunteer cereals	S	S	S
Wild oat	S	S	S
Common chickweed	S	S	S
Blackgrass	S	S	MS
Black-bindweed	S	S	MR
Black nightshade	S	S	MR
Fat-hen	S	S	MR
Knotgrass	S	S	MR
Redshank	S	S	MR
Small nettle	S	S	MR
Speedwells	S	S	MR
Cleavers	MS	MR	R

Sugar beet (for seed)

Dose rate: 2.1 L/ha in 200-1000 L/ha water.

Application timing: 1 October to 31 January.

Crop stage: From 4 leaf stage.

Soil type: All soils with less than 10% organic matter.

Weeds controlled: Same as for winter field beans.

Brassicas grown for seed (fodder rape, kale, turnip)

Dose rate: 1.75 L/ha in 200-1000 L/ha water.

Application timing: 1 October to 31 January.

Crop stage: From 3 true leaves.

Soil type: All soils with less than 10% organic matter.

**Clover grown for seed
(red and white)**

Dose rate: 1.75 L/ha in 200-1000 L/ha water.
Application timing: 1 October to 31 January.
Crop stage: Established crops grown for at least 1 season.
Soil type: All soils with less than 10% organic matter.

Lucerne

Dose rate: 1.75 L/ha in 200-1000 L/ha water.
Application timing: 1 October to 31 January.
Crop stage: Established crops grown for at least 1 season.
Not less than 7 days after last cut.
Soil type: All soils with less than 10% organic matter.

Weed control at 1.75 L/ha	Germ.	Up to 2 L	Estab.
Annual meadowgrass	S	S	S
Barren brome	S	S	S
Volunteer cereals	S	S	S
Wild oat	S	S	S
Common chickweed	S	S	S
Blackgrass	S	S	MS
Black-bindweed	S	S	MR
Black nightshade	S	S	MR
Fat-hen	S	S	MR
Knotgrass	S	S	MR
Redshank	S	S	MR
Small nettle	S	S	MR
Speedwells	S	S	MR
Cleavers	MS	MR	R

HORTICULTURAL CROPS

**Apple, pear, plum,
blackberry,
gooseberry,
loganberry,
raspberry,
blackcurrant,
redcurrant**

Dose rate: 2.1-4.25 L/ha in 400-1000 L/ha water.
Application timing: 1 October to 31 January.
Crop stage: Established crops planted for at least 1 season.
Soil type: All soils with less than 10% organic matter.

Strawberry (outdoor)

Dose rate: 3.5 L/ha in 400-1000 L/ha water.
Application timing: 1 October to 31 December.
Crop stage: Established crops (excluding matted row crops) planted for at least 1 year.
Soil type: Use only on heavy soils with less than 10% organic matter.

**Rhubarb
(grown outdoor)**

Dose rate: 2.1-4.25 L/ha in 400-1000 L/ha water.
 Application timing: 1 October to 31 December.
 Crop stage: Established crops planted for at least 1 season.
 Soil type: All soils with less than 10% organic matter.

Weed control at 2.1 L/ha	Germ.	Up to 2 L	Estab.
Annual meadowgrass	S	S	S
Barren brome	S	S	S
Volunteer cereals	S	S	S
Wild oat	S	S	S
Common chickweed	S	S	S
Blackgrass	S	S	MS
Black-bindweed	S	S	MR
Black nightshade	S	S	MR
Fat-hen	S	S	MR
Knotgrass	S	S	MR
Redshank	S	S	MR
Small nettle	S	S	MR
Speedwells	S	S	MR
Weed control at 3.5-4.25 L/ha	Germ.	Up to 2 L	Estab.
Annual meadowgrass	S	S	S
Barren brome	S	S	S
Volunteer cereals	S	S	S
Wild oat	S	S	S
Common chickweed	S	S	S
Blackgrass	S	S	S
Common couch ³	S	S	S
Perennial grasses	S	S	S
Black-bindweed	S	S	MS
Black nightshade	S	S	MR
Fat-hen	S	S	MR
Knotgrass	S	S	MR
Redshank	S	S	MR
Small nettle	S	S	MR
Speedwells	S	S	MS
Cleavers	S	S	R
Common fumitory	MS	MS	R
Shepherd's purse	MS	MS	R
Creeping buttercup	S	MS	MS
Broad-leaved dock	S	MS	MS
Sheep's sorrel	S	MS	MS
Field horsetail	MS	MS	MS

**Lettuce
(grown outdoor)**

Dose rate: 2.75-3.5 L/ha in 400-1000 L/ha water.
Under dry soil conditions or warm weather use 3.5 L/ha and irrigate or incorporate.
Application timing: Any time until 6 weeks before harvest.
Crop stage: Any time before or after planting.
Soil type: All soils with less than 10% organic matter.

Weed control at 2.75 - 3.5 L/ha	Germ.	Up to 2 L	Estab.
Annual meadowgrass	S	S	S
Barren brome	S	S	S
Volunteer cereals	S	S	S
Wild oat	S	S	S
Common chickweed	S	S	S
Blackgrass	S	S	S
Black-bindweed	S	S	MS
Black nightshade	S	S	MS
Fat-hen	S	S	MS
Knotgrass	S	S	MS
Redshank	S	S	MS
Small nettle	S	S	MS
Speedwells	S	S	MS
Cleavers	MS	MR	R
Common fumitory	MS	MR	R
Shepherd's pursue	MS	MR	R

FORESTRY

**Forestry,
farm forestry,
forest nursery,
hedgerow**

Dose rate: 3.75 L/ha in 400-1000 L/ha water.
Application timing: 1 October – 31 January (north of line from Aberystwyth to London). 1 October – 31 December (south of line from Aberystwyth to London).
Crop stage for forests: Any stage including pre-planting.
Nurseries: Not earlier than 1 month after transplanting.
Mineral soils (surface water gleys, brown earths and sands): Use between 1 October and 31 January but not after the latest Application Timing.
Peat soils (peaty gleys and peat): soils with a depth of organic matter greater than 10 cm between 1 October and 31 December but not after latest Application Timing.
COHORT is recommended for use on the following species: Alder, Beech, Birch, Douglas fir, Grand fir, Noble fir, Horse Chestnut, Larch, Lawson Cypress, Oak, Corsican Pine, Lodgepole Pine, Monterey Pine, Scots Pine, Poplar, Norway Spruce, Sycamore, Sitka Spruce, Western Hemlock.

Weed control at 3.75 L/ha	Germ.	Up to 2 L	Estab.
Common bent	S	S	S
Common couch	S	S	S
Sweet vernal grass	S	S	S
Tufted hair-grass	S	S	S
Yorkshire fog	S	S	S
Other perennial grasses	S	S	S
Creeping soft grass	S	S	MS
Cock's-foot	S	S	MR
Field horsetail	MS	MS	MS
Sedges	MS	MS	MS
Foxglove	R	R	R
Willow herbs	R	R	R

AMENITY VEGETATION

Trees, shrubs, ornamentals⁴

Dose rate: 2.1 - 4.25 L/ha in 400-1000 L/ha water.

Application timing: 1 October to 31 January.

Crop stage: Established crops grown for at least 1 season.

Soil type: All soils with less than 10% organic matter.

COHORT is not recommended for use on the following species that have been planted out no later than the previous spring: *Berberis darwinii*, *Buddleia davidii*, *Chamaecyparis* spp (False Cypress), *Cotoneaster* spp, *Crataegus* spp (Hawthorns), *Fagus sylvatica* (Beech), *Forsythia x intermedia*, *Ilex aquifolium* (Holly), *Larix deciduas* (Larch), *Philadelphus* spp (Mock Orange), *Picea* spp (Spruces), *Pinus* spp (Pines), *Prunus gladiolosa*, *Quercus* spp (Oak), *Rosa* spp (Roses including rose rootstocks), *Spiraea x bumalda 'Froebelii'*, *Syringa vulgaris* (Lilac), *Taxus baccata* (Yew), *Thuja orientalis 'Rosedalis'*.

Weed control at 2.1 L/ha	Germ.	Up to 2 L	Estab.
Annual meadowgrass	S	S	S
Barren brome	S	S	S
Volunteer cereals	S	S	S
Wild oat	S	S	S
Common chickweed	S	S	S
Blackgrass	S	S	S
Black-bindweed	S	S	MR
Black nightshade	S	S	MR
Fat-hen	S	S	MR
Knotgrass	S	S	MR
Redshank	S	S	MR
Small nettle	S	S	MR
Speedwells	S	S	MR

Weed control at 4.25 L/ha	Germ.	Up to 2 L	Estab.
Annual meadowgrass	S	S	S
Barren brome	S	S	S
Volunteer cereals	S	S	S
Wild oat	S	S	S
Common chickweed	S	S	S
Blackgrass	S	S	S
Common couch	S	S	S
Perennial grasses	S	S	S
Black-bindweed	S	S	MS
Black nightshade	S	S	MS
Fat-hen	S	S	MS
Knotgrass	S	S	MS
Redshank	S	S	MS
Small nettle	S	S	MS
Speedwells	S	S	MS
Cleavers	S	S	R
Common fumitory	MS	MS	R
Shepherd's purse	MS	MS	R
Creeping buttercup	S	MS	MS
Broad-leaved dock	S	MS	MS
Sheep's sorrel	S	MS	MS
Field horsetail	MS	MS	MS

ALL LISTED CROPS

Weed control at all dose rates

Common poppy	R	R	R
Gallant soldier	R	R	R
Groundsel	R	R	R
Mayweed	R	R	R
Scarlet pimpernel	R	R	R
Clover	R	R	R
Dandelion	R	R	R
Field bindweed	R	R	R
Ragwort	R	R	R
Thistle	R	R	R

NOTES ON CROP RECOMMENDATIONS

1	Common chickweed control may be reduced where it is well established (over 10 cm in diameter)
2	Where populations of established (well-tillered) blackgrass and/or volunteer cereals exceed 50/m ² , COHORT should be applied in a tank-mix with an approved graminicide or following an approved graminicide. The dose of COHORT may be increased to 2.1 L/ha under certain conditions when one or more of the following conditions apply. 1) applications are made in early season, under warm conditions and an increase in the duration of residual control is required. 2) the efficacy of the partner graminicide is reduced due to herbicidal resistance (e.g. enhanced metabolism resistance R or RR in blackgrass). Where target site RRR resistance to the partner graminicide occurs the effect of this dose increase will be less significant. When applied alone in late season this higher dose is unlikely to markedly improve control of well-tillered blackgrass.
3	For heavy infestations of common couch, a repeat application of COHORT may be required the following winter. Avoid deep burying of rhizomes when preparing land prior to COHORT treatment.
4	It is advisable to test for compatibility and tolerance to crop injury prior to full scale commercial use.

FOLLOWING CROPS

The number of weeks that must elapse between the last application of COHORT and drilling or planting of the following crop is shown in the table below:

Following crop	Rate of COHORT applied to previous crop	Date COHORT applied to previous crop	
		1st April – 31st July	1st August – 31st March
Lettuce	1.75 – 4.25 L/ha	0 weeks	0 weeks
Field beans Broad beans Peas Chicory Radish Clover Lucerne	1.75 – 4.25 L/ha	5 weeks	10 weeks
Brassicas Leeks Onions Parsley Parsnips Celery Oilseed rape Strawberry	1.75 – 4.25 L/ha	10 weeks	25 weeks or plant/ sow after 15th June whichever is sooner
Cereals and grasses	1.75 – 2.1 L/ha 2.75 – 4.25 L/ha	N/A 40 weeks	30 weeks 40 weeks
Any other crop⁵	2.75 – 4.25 L/ha	20 weeks	40 weeks

⁵ Treated land must be mouldboard ploughed to a depth of 15 cm prior to drilling a following cereal, grass or any other crop not listed above. Consult your supplier if treated crop fails because of bad growing conditions.

APPLICATION EQUIPMENT

Application to all crops may be made through a ground crop sprayer.

Application in forestry, hedgerow and amenity vegetation may be through a knapsack sprayer.

Do not apply COHORT through air assisted sprayers.

MIXING AND SPRAYING

Ensure the sprayer is clean, in good working order and calibrated accurately to the sprayer manufacturers' recommendations. Add half the required volume of water to the spray-tank. Shake the container vigorously and add the recommended quantity to the spray tank. Agitate continuously while filling the tank and continue agitation during spraying. Do not leave sprayer standing with spray mixture in it. Thoroughly wash all spraying and measuring equipment with water and a wetting agent immediately after use.

TANK-MIXES AND SPRAYING PROGRAMMES

Winter oilseed rape: COHORT at recommended dose rate can be tank-mixed with Falcon® at recommended dose rates in water volumes of not less than 200 L/ha.

DISCLAIMER/CONDITIONS OF SUPPLY

The specified properties of our products and the mode of application stated on this label have been established on the basis of research and experience. Products conform to specification at the time of delivery but, as we exercise no control over their subsequent storage, handling, mixing or use or the weather conditions before, during and after application, all of which may affect the performance of the products, no responsibility or liability will be accepted by us or our re-sellers for any failure in performance, damage or injury to person or property whatsoever arising from the storage, handling, application or use of the products. These conditions cannot be varied by our staff or agents whether or not they supervise or assist in or make recommendations concerning the use of such products. We recommend you contact your dealer to request advice on the suitability of this product for any new and/or unusual growing methods or for new varieties not listed on this label.

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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 GLOVES when handling the concentrate or 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 HANDS before meals and after work.

Environmental Protection

Do not contaminate water with product or its container.

Do not clean application equipment near surface water.

Avoid contamination via drains from farmyards and roads.

Storage and Disposal

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

EMPTY CONTAINER COMPLETELY and dispose of safely.

STORE IN A COOL DRY PLACE.

IMPORTANT INFORMATION

FOR PROFESSIONAL USE ONLY AS AN AGRICULTURAL/HORTICULTURAL/FORESTRY HERBICIDE

Crops: Oilseed rape (winter), sugar beet (seed crop), field beans (winter), apple, blackberry, blackcurrant, gooseberry, loganberry, pear, plum, raspberry, redcurrant, rhubarb (outdoor), strawberry (outdoor), fodder rape (seed crop), kale (seed crop), red clover (seed crop), white clover (seed crop), turnip (seed crop), lucerne, lettuce (outdoor), forest, farm forestry, forest nursery, hedgerow, amenity vegetation.

Maximum individual dose (L product/ha)

Maximum number of applications

Latest time of application

Other specific restrictions

Full details are given in the information box within the attached leaflet.

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.