



**IMPORTANT INFORMATION
FOR USE ONLY AS A PROFESSIONAL INSECTICIDE**

Crops	Maximum individual dose (ml product/hectare):	Maximum number of treatments (per crop):	Latest time of application:	Aquatic buffer (m)
Broccoli/calabrese, Brussels sprout, cabbage, cauliflower, kale	100	2	7 days before harvest	12
Vining pea	125	2	1 day before harvest	12
Combining pea	125	2	7 days before harvest	12
Fresh broad bean, field bean	125	2	7 days before harvest	12
Barley, wheat	125	2	Before early dough stage	12
Oilseed rape	100	2	Before the end of flowering	12

Other specific restrictions:

This product must not be applied via hand-held equipment. Reduced volume spraying must not be used on wheat and barley after 31st March in the year of harvest.

Buffer zones greater than 5 metres are NOT eligible for buffer zone reduction under the LERAP scheme.

The container must not be re-used for any purpose.

Low drift spraying equipment must be operated according to the specific conditions stated in the official three star rating for that equipment as published on HSE Chemicals Regulation Directorate's website. These operating conditions must be maintained until 30 metres from the top of the bank of any surface water bodies.

This product must not be applied to a cereal crop if any product containing either a pyrethroid insecticide or dimethoate has been applied to that crop after the start of ear emergence (GS 51).

Do not contaminate water with the product or its container.

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.

Hi-AUBIN®

An emulsifiable concentrate formulation containing 100 g/l (10.87% w/w) alpha-cypermethrin



DANGER

FLAMMABLE LIQUID AND VAPOUR
TOXIC IF SWALLOWED
MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS
CAUSES SKIN IRRITATION
MAY CAUSE AN ALLERGIC SKIN REACTION
CAUSES SERIOUS EYE DAMAGE
HARMFUL IF INHALED
MAY CAUSE RESPIRATORY IRRITATION
MAY CAUSE DROWSINESS OR DIZZINESS
MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE
VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

NO SMOKING.

WEAR SUITABLE PROTECTIVE GLOVES AND EYE/FACE PROTECTION.

IF ON SKIN (or hair): take off immediately all contaminated clothing and rinse skin with water/shower.

IF SWALLOWED: immediately call a POISON CENTRE or doctor/physician.

IF IN EYES: RINSE CAUTIOUSLY with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE.

IF INHALED: remove person to fresh air and keep comfortable for breathing.

Collect spillage.

Avoid release to the environment.

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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An emulsifiable concentrate formulation containing 100 g/l (10.87% w/w) alpha-cypermethrin. An insecticide for use in broccoli/calabrese, Brussels sprout, cabbage, cauliflower, kale, peas, beans, barley, wheat and oilseed rape.



Scan here for MSDS or visit
www.hockleyagro.co.uk

Authorisation Holder:

Sharda Cropchem Ltd.,
Domnic Holm, 29th Road,
Bandra (West), Mumbai – 400050, India
Tel : +91-22-66782800

Marketing Company:

Hockley Agro UK Limited,
3 Longstone Road, Ashbrook Office Park,
Manchester, M22 5LB. UK.
Tel: 0161 209 7400
Email: info@hockleyagro.co.uk

Batch No: See bottle
Production Date: See bottle
Expiry: 2 years from production date

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**Alpha-cypermethrin 100 g/l
MAPP 19408**

INSECTICIDE



Peel here

PEEL BACK FOR DIRECTIONS FOR USE LEAFLET





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.

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

WASH ALL PROTECTIVE CLOTHING thoroughly after use, especially the insides of gloves.

TAKE OFF IMMEDIATELY all contaminated clothing.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

AFTER CONTACT WITH SKIN, WASH IMMEDIATELY with plenty of water.

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

DO NOT BREATHE SPRAY.

WASH HANDS AND EXPOSED SKIN before meals and after work.

IF YOU FEEL UNWELL, seek medical advice (show the label where possible).

Environmental Protection

HORIZONTAL BOOM SPRAYERS MUST BE FITTED WITH THREE STAR DRIFT REDUCTION TECHNOLOGY FOR ALL USES.

To protect aquatic organisms respect an unsprayed buffer zone to surface water bodies in line with LERAP requirements.

DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 12 metres of the top of the bank of a static or flowing water body, or within 1 metre of the top of a ditch which is dry at the time of application. Aim spray away from water. THIS PRODUCT IS NOT ELIGIBLE FOR BUFFER ZONE REDUCTION UNDER THE LERAP HORIZONTAL BOOM SPRAYERS SCHEME.

This product qualifies for inclusion within the Local Environment Risk Assessment for Pesticides (LERAP) scheme. The statutory buffer zone must be maintained and the distance recorded in the LERAP record form. The LERAP record form must be kept available for three years for inspection to any person entitled to exercise enforcement powers under or in connection with the Plant Protection Products Regulations 2011 or the Plant Protection Products (Sustainable Use) Regulations 2012 (An electronic record will satisfy the requirement for a written record, providing it is similarly available for inspection and can be copied).

Buffer zones must be measured in accordance with the guidance set out in the booklet 'Local Environment Risk Assessment for Pesticides- Horizontal Boom Sprayers' available from HSE Chemicals Regulation Directorate website and any amendments made to it.

RISK TO NON-TARGET INSECTS OR OTHER ARTHROPODS.

DANGEROUS TO BEES. To protect bees and pollinating insects do not apply to crop plants when in flower. Do not use where bees are actively foraging. Do not apply when flowering weeds are present.

Storage and Disposal

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

KEEP OUT OF REACH OF CHILDREN.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

WASH OUT CONTAINER THOROUGHLY, empty washings into spray tank 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.

Hi-AUBIN® is a contact and stomach acting insecticide with residual foliar activity.

Restrictions or Warnings

Avoid spraying within 5 metres of the field boundary to reduce effects on non-target insects or other arthropods.

Damage may result unless all recommendations are carefully carried out.

DO NOT use less than the minimum volume of water specified.

Reduced volume spraying must not be used for cereal aphid control in wheat and barley after 31st March in the year of harvest.

This product must not be applied to a cereal crop if any product containing pyrethroid insecticide or dimethoate has been applied to that crop after the start of ear emergence (GS 51).

Do not apply this product in tank mixture with a triazole-containing fungicide when bees are likely to be actively foraging in the crop.

It is recommended that as a matter of good practice, spraying in oilseed rape should be carried out in the late evening or early morning or in dull weather if at all possible and local beekeepers should be advised of the intention to spray and the chemical being used.

To protect non-target insects/arthropods respect an unsprayed buffer zone of 5m to non-crop land.

Effectiveness when using three star drift reduction technology may be reduced.

CONSULT PROCESSORS BEFORE USING ON CROPS FOR PROCESSING.

Crop Specific Information

Broccoli, calabrese, Brussels sprout, cabbage, cauliflower, kale

Maximum number of applications: 2

Pest – Flea Beetle

Application rate: 75 ml/ha

Timing of application: Apply as soon as pest attack is observed on seedling plants. Repeat if necessary. Please refer to Resistance Management Section for more information.

Pest – Caterpillars

Application rate: 100 ml/ha

Timing of application: Apply when damage is first seen or as a preventative spray. Repeat if necessary.

Combining and vining peas

Maximum number of applications: 2

Pest – Pea and bean weevil

Application rate: 125 ml/ha

Timing of application: Apply when adults are causing damage to growing points in the early growth stages of the crop. Under high pest pressure a repeat application may be required 2-3 weeks later.

Pest – Pea moth

Application rate: 100 ml/ha

Timing of application: Apply according to ADAS/PGRO warnings or as indicated by pheromone traps. For further information consult your specialist advisor. On dry peas repeat 14 days later.

Fresh broad and field bean

Maximum number of applications: 2

Pest – Pea and bean weevil

Application rate: 125 ml/ha

Timing of application: Apply when adults are causing damage to growing points in the early growth stages of the crop. Under high pest pressure a repeat application may be required 2-3 weeks later.

Wheat and barley

Maximum number of applications: 2

Pest – Cereal aphids (autumn/winter)

Also reduction of spread of barley yellow dwarf virus and reduction of yellow cereal fly

Application rate: 125 ml/ha

Timing of application: High risk situation: e.g. crops drilled before the 3rd week of September, crops following grass or grassy stubbles, or crops in areas with a history of BYDV. The first application should be made when aphids are first seen in the crop (or by mid-October). A second application will be necessary at the end of the aphid migration, which is normally at the end of October or beginning of November. Where conditions continue to favour prolonged activity e.g. mild winters, and where two applications of another insecticide have already been made in the autumn, one application of **Hi-AUBIN®** can be made in December to March.

Other situations: Apply in late October or early November to crops which have emerged by mid-October if aphids are found, or on ADAS warnings. NOTE: **Hi-AUBIN®** applied in the autumn for aphid control will also reduce the number of yellow cereal fly if present in the crop.

Please refer to Resistance Management Section for more information.

Pest – Cereal aphids (summer)

Application rate: 125 ml/ha in 200 litres of water per hectare

Timing of application: Apply between the onset of flowering and the milky ripe stage (GS 61 to 73). Details of thresholds are available from ADAS or your specialist adviser. This product must not be applied to a cereal crop if any product containing a pyrethroid insecticide or dimethoate has been applied to that crop after the start of ear emergence (GS 51).

Please refer to Resistance Management Section for more information.

Winter oilseed rape

It is recommended that as a matter of good practice, spraying in oilseed rape should be carried out in the late evening if at all possible and local beekeepers should be advised of the intention to spray and the chemical being used at least 24 hours in advance.

Maximum number of applications: 2

Pest – Cabbage stem flea beetle and rape winter stem weevil

Also reduction of spread of beet western yellow virus

Application rate: 100 ml/ha

Timing of application: **Hi-AUBIN®** should be applied when adult cabbage stem flea beetle feeding damage is first seen on young rape plants. A second application should be made when larval damage is seen in the leaf petioles (normally one month later). In situations where no adult feeding damage is seen, the first application should be made when larval damage is first seen in the leaf petioles, followed by a second application one month later*.





NOTE: The use of **Hi-AUBIN®** for the control of cabbage stem flea beetle will also control the adults and young larvae of rape winter stem weevil if these are present in the crop at the time of application.

Application of **Hi-AUBIN®** at these timings will also reduce the spread of Beet Western Yellow Virus.

* Please refer to Resistance Management Section for more information.

Pest - Cabbage seed weevil and brassica pod midge

Application rate: 100 ml/ha

Timing of application: **Hi-AUBIN®** may be applied at any time during the flowering period when seed weevil numbers reach the threshold for spraying*. Best results are normally achieved when application coincides with the onset of peak adult activity. This often occurs between the 20 pod set stage and the end of flowering on the main raceme, i.e. 75% petal fall across the entire crop.

*Details of thresholds are available from ADAS or your specialist advisor.

Winter and spring oilseed rape

It is recommended that as a matter of good practice, spraying in oilseed rape should be carried out in the late evening if at all possible and local beekeepers should be advised of the intention to spray and the chemical being used at least 24 hours in advance.

Maximum number of applications: 2

Pest – Pollen beetle

Application rate: 100 ml/ha

Timing of application: **Hi-AUBIN®** should be applied at the green to yellow bud stage, as soon as pest numbers reach the threshold for spraying*. A second application may be required 3-7 days later (the exact timing is dependent on the speed of pest re-infestation and when the threshold is reached) within the green to yellow bud stage of the crop.

Pest – Pollen beetle and cabbage seed weevil (mixed populations)

In spring oilseed rape and in backward crops of winter oilseed rape, cabbage seed weevil may also be present at the yellow bud stage. In these situations control of both pollen beetle and cabbage seed weevil is required. (See also separate sections on cabbage seed weevil).

Please refer to Resistance Management Section for more information.

Application rate: 100 ml/ha

Timing of application: **Hi-AUBIN®** should be applied at yellow bud stage, as soon as pest numbers reach the threshold for spraying*.

NOTE: The use of **Hi-AUBIN®** for the control of pollen beetle and cabbage seed weevil will also give some reduction in the number of adult cabbage stem weevil if these are present in the crop at the time of application.

* Details of thresholds are available from ADAS or your specialist advisor.

Spring oilseed rape

It is recommended that as a matter of good practice, spraying in oilseed rape should be carried out in the late evening if at all possible and local beekeepers should be advised of the intention to spray and of the chemical being used at least 24 hours in advance.

Maximum number of applications: 2

Pest – Cabbage seed weevil

Application rate: 100 ml/ha

Timing of application: Apply when pest numbers reach the threshold for spraying*, normally from the yellow bud stage of the crop.

Application at yellow bud stage will also control pollen beetle (see separate section on pollen beetle). A further application may be necessary if continuing pest pressure causes the seed weevil threshold* to be reached during flowering (between the 20 pod set stage and at the end of flowering on the main raceme, i.e. 75% petal fall across the entire crop).

* Details of thresholds are available from ADAS or your specialist advisor.

Mixing and Spraying

Water volume

Hi-AUBIN® should be applied in no less than 200 litres of water per hectare.

In situations where increased coverage is required, for example in dense or thick foliage or when the pests are concealed, the volume of water should be increased to where sufficient coverage is obtained, up to a maximum of 500 litres per hectare.

Mixing

Fill the tank with clean water and agitate vigorously. Add the recommended quantity of **Hi-AUBIN®** and apply without delay, maintaining continuous agitation until spraying is completed.

If a tank-mix with another material is required, always add

Hi-AUBIN® to the tank first and ensure it is evenly dispersed through the tank before adding the second material.

Sprayer cleaning

Wash sprayer thoroughly (rinsing three times) immediately after use, using clean water and following best practice advice and the guidance provided by the equipment manufacturer.

Compatibilities

For details of compatibilities contact your distributor or local Hockley Agro UK representative.

Resistance Management

Hi-AUBIN® is a pyrethroid insecticide belonging to IRAC* CHEMICAL GROUP 3A. Any insect population may contain individuals naturally resistant to **Hi-AUBIN®** and other pyrethroid insecticides. Resistant individuals may be selected and ultimately dominate the population if **Hi-AUBIN®** or other chemicals belonging to the same class are used repeatedly. If this happens these resistant insects may not be effectively controlled by **Hi-AUBIN®** or other pyrethroid insecticides. Where available, local or national, or international resistance management guidelines should be followed. If in doubt, consult your Hockley Agro UK representative or other local expert for the appropriate resistance management guidelines.

The classification of **Hi-AUBIN®** in category 3A is based on the Insecticide Resistance Action Committee's mode of action scheme. Further information on insecticide resistance may be obtained from IRAC's home page <http://www.irac-online.org>.

- Avoid consecutive and repeated use of **Hi-AUBIN®** or other insecticides from the same chemical group.
- Integrate other available control methods (chemical, cultural, biological) into insect control programmes.
- Where aphids and pollen beetle resistant to products containing alpha-cypermethrin occur, **Hi-AUBIN®** is unlikely to give satisfactory control. Repeat treatments are likely to result in lower levels of control.
- Pollen beetle populations resistant to pyrethroids may occur. Please refer to current UK-IRAG and HGCA advice on resistance management and control of pollen beetle in OSR. Spray only where beetle numbers exceed the appropriate current threshold. Inspect crops (in the headland and midfield) thoroughly prior to making an application. Use a non-pyrethroid insecticide if above threshold numbers of beetles survive a pyrethroid treatment. For aphid control use a suitable aphicide depending on other pests present. Consult a BASIS qualified agronomist.
- Growers should consult the IRAG website and the HGCA for further information on the current resistance status and management strategies for all target pests, particularly pollen beetle, cabbage stem flea beetle, peach potato aphid and grain aphid.

Please refer to current IRAG-UK and HGCA advice on resistance management for relevant insect pests and crops.

For further information contact your local distributor.

*Insecticide Resistance Action Committee.

DISCLAIMER/CONDITIONS OF SUPPLY

The following does not form part of the product label under the UK Plant Protection Products Regulations.

With many products there is a general risk of resistance developing to the active ingredients. For this reason a change in activity cannot be ruled out. It is generally impossible to predict with certainty how resistance may develop because there are so many crop and use connected ways of influencing this. We therefore have to exclude liability for damage or loss attributable to any such resistance that may develop. To help minimise any loss in activity the Hockley Agro UK recommended rate should in all events be adhered to.

Numerous, particularly regional or regionally attributable, factors can influence the activity of the product. Examples include weather and soil conditions, crop plant varieties, crop rotation, treatment times, application amounts, admixture with other products, appearance of organisms resistant to active ingredients and spraying techniques.

Under particular conditions a change of activity or damage to plants cannot be ruled out. The manufacturer or supplier is therefore unable to accept any liability in such circumstances.

All goods supplied by us are of high grade and we believe them to be suitable but as we cannot exercise control over their storage, handling, mixing or use or the weather conditions before, during and 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 responsibility will be accepted by us or re-sellers for any failure in performance, damage or injury whatsoever arising from their storage, handling, application or use. These conditions cannot be varied by our staff or agents whether or not they supervise or assist in the use of such goods. But nothing should be deemed to exclude or restrict any liability upon us which cannot be excluded or restricted under the provisions of the Unfair Contract Terms Act 1977 or any similar applicable law.





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