



CARNADINE®

GROUP

4A

INSECTICIDE



MAPP: 21405

A Soluble Concentrate containing 200 g/L (20% w/w) acetamiprid for the control of insects in Wheat (Winter), Barley (Winter & Spring), Triticale (Winter), Rye (Winter) and Oilseed Rape (Winter)
The Control of Substances Hazardous to Health Regulations (COSHH) may apply to the use of this product at work.
Shake well before use

IMPORTANT INFORMATION FOR USE ONLY AS A PROFESSIONAL INSECTICIDE

Crop	Maximum Individual Dose (L product/ha)	Maximum number of treatments	Latest Time of Application
Barley (Spring)	0.15	1 per crop	BBCH 69 (Anthesis complete)
Wheat (Winter), Barley (Winter), Triticale (Winter), Rye (Winter)	0.15	1 per crop	BBCH 75 (medium milk) Minimum 28 days before harvest
Oilseed Rape (Winter)	0.2	1 per crop	BBCH 59 (Flower buds closed with first petals visible)

Other Specific Restrictions

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 Division's website. These operating conditions must be maintained until 30m from the top of the bank of any surface water bodies.

To protect non-target insects/arthropods applications must not be made after the 31st July

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.

PROTECT FROM FROST
SHAKE WELL BEFORE USE

1L

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Harmful if swallowed.
Suspected of damaging the unborn child.
Very toxic to aquatic life with long lasting effects.

Keep out of reach of children
Wash thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection.

Do not eat, drink or smoke when using this product
If swallowed: Call a poison centre/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 risk to human health and the environment, comply with the instructions for use.

WARNING



Authorisation Holder & Marketing Company

Nufarm UK Limited
Wyke Lane, Wyke, Bradford, West Yorkshire,
BD12 9EJ
United Kingdom

Technical Helpline telephone number 01274 694714
24-hour emergency telephone number 01274 696603

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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.

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

WHEN USING DO NOT EAT, DRINK OR SMOKE

Environmental Protection

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

HORIZONTAL BOOM SPRAYERS MUST BE FITTED WITH THREE STAR DRIFT REDUCTION TECHNOLOGY. 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. Maintain three star operating conditions until 30 m from the top of the bank of any surface water bodies.

DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within the distance specified for the crop to the top of the bank of a static or flowing water body, or within 1 m of the top of a ditch which is dry at the time of application. Aim spray away from water. NOTE: BUFFER ZONES OF MORE THAN 5m CANNOT BE REDUCED UNDER THE LOCAL ENVIRONMENT RISK ASSESSMENT FOR PESTICIDES (LERAP) SCHEME.

The statutory buffer zone must be maintained and the distance recorded in Section A of the LERAP record form. The LERAP record form must be kept available for three years.

DO NOT CONTAMINATE water with this product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

To protect non target in-sects/arthropods respect an unsprayed buffer zone of 5 m to non-crop land. The horizontal boom sprayers must be fitted with three star drift reduction technology or better. Effectiveness using three star drift reduction technology may be reduced

Storage and Disposal

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.

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

WASH OUT CONTAINER THOROUGHLY, empty washings into spray tank, and dispose of safely.

DO NOT RE-USE CONTAINERS for any purpose.

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.

GENERAL INFORMATION WARNINGS

CARNADINE is a neonicotinoid insecticide for control of insects in cereals, and oilseed rape.

To protect non target in-sects/arthropods respect an unsprayed buffer zone of 5 m to non-crop land. The horizontal boom sprayers must be fitted with three-star drift reduction technology or better. Effectiveness using three-star drift reduction technology may be reduced
This product must not be applied to blossoming plants or plants visited by bees. This also applies to pest weeds.

RESISTANCE

Acetamiprid is Group 4A insecticide, adopt a window strategy by limiting Group 4 treatments onto one generation of the target pest, and switching to other modes of action in the subsequent generation where further sprays are required. Avoid using Group 4 compounds for more than 50% of the total crop cycle

Use no more than one application of acetamiprid on any crop.

Total reliance on one pesticide will hasten the development of resistance. Pesticides of different chemical types or alternative control measures should be included in the planned programme. Alternating insecticides with different modes of action is a recognised anti-resistance strategy and CARNADINE should always be used in conjunction with other insecticides of a different mode of action.

- Use products at recommended doses and spray intervals
- Follow label recommendations
- Apply only under appropriate weather and soil conditions
- Follow good agricultural practices
- Avoid accumulation of pest populations in field
- Monitor pest populations in order to detect firstshifts in sensitivity

CROP SPECIFIC INFORMATION

SPRING BARLEY

Application Timing:	CARNADINE may be applied between GS30 (Stem elongation) – GS69 (Anthesis complete)
Application Rate:	Apply at a rate of 0.15 L product/ha
Target Species:	CARNADINE may be used for control of Bird cherry oat aphid (<i>Rhopalosiphum padi</i>) and English grain aphid (<i>Sitobion avenae</i>)
Method of application:	Foliar spray using 3-star drift reducing nozzles, Effectiveness using three star drift reduction technology may be reduced
Water volume:	Apply in 100-200 litres of water per hectare.

WINTER WHEAT, WINTER BARLEY, WINTER TRITICALE, WINTER RYE

Application Timing:	CARNADINE may be applied between GS31 (First node at least 1cm above tillering node) to GS75 (medium milk).
Application Rate:	Apply at a rate of 0.15 L product/ha.
Target Species:	CARNADINE may be used in for control of Bird cherry oat aphid (<i>Rhopalosiphum padi</i>) and English grain aphid (<i>Sitobion avenae</i>)
Method of application:	Foliar spray using 3-star drift reducing nozzles, Effectiveness using three star drift reduction technology may be reduced
Water volume:	Apply in 200 to 400 litres of water per hectare.

OILSEED RAPE (WINTER)

Application Timing

Spring Application: CARNADINE may be applied between April and June when plants are between GS 50 (Flower buds present, still enclosed by leaves) and GS59 (First petals visible, flower buds still enclosed "yellow bud").
DO NOT APPLY DURING FLOWERING

Application Rate: Apply at a rate of 0.20 L product/ha.

Target Species

Spring Application: For control of Common pollen beetle (*Meligethes aeneus*) and Rape winter stem weevil (*Ceutorhynchus picipitarsis*)

Method of application: Foliar spray using 3-star drift reducing nozzles

Water volume: Apply in 200-400 litres of water per hectare.

MIXING

Half-fill the spray tank with clean water and begin agitation. Add the required quantity of CARNADINE to the water. Rinse the empty container thoroughly with water and add the rinsings to the tank. Complete filling and apply without delay. Maintain agitation while travelling and throughout the spraying operation. Wash out the sprayer thoroughly after use using a recognised tank cleaner and rinse with clean water 3 times.

COMPANY ADVISORY INFORMATION

This section is not part of the Product Label under the Plant Protection Products Regulations 2011. It provides additional advice on use of the product

ACKNOWLEDGMENTS

CARNADINE® is a registered trademark.

CONDITIONS OF SUPPLY

All goods supplied by us are of high grade and we believe them to be suitable but (as we cannot exercise any control over their mixing or use) all conditions and warranties, statutory or otherwise, as to the quality and fitness for any purpose of our goods are excluded, except in so far as such exclusion is prevented by law,

and no responsibility will be accepted by us for any damage or injury whatsoever arising from their storage, handling, application or use.

This product is to be used only in accordance with the recommendations and instructions given on the labels provided with this pack. Use in any other circumstances is entirely at users risk.

To access the Safety Data Sheet for this product scan the QR code or refer to the Nufarm website at <https://www.nufarm.com/uk>





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