

Product Information Sheet

Revised January 2025



CARNADINE®

Product	CARNADINE			
Active ingredient:	Acetamiprid 200 g/l			
Formulation:	Soluble Concentrate (SL)			
PCS number:	06758			
Mode of Action:	IRAC group 4A Nicotinic acetylcholine receptor (nAChR) competitive modulators – nerve action			
Pack size:	1 litre			
Aquatic buffer zone	5 metres with DRT (drift reducing technology, 90% drift reducing nozzles)			
Non-target Arthropod	5 metres to non-crop land			
Benefits	• CARNADINE provides an alternative mode of action (non-pyrethroid), primarily against sucking pests, with some activity on chewing pests if present at the time of application. • Control programmes targeting aphid vectors that can spread disease in susceptible crops will tend to lead to reduced incidence of crop-damaging viruses. • Essential component of IPM programmes with a resistance management focus. • Convenient soluble liquid formulation, widely compatible with other PPPs.			
RECOMMENDATIONS				
Crops	Full dose	Total dose	No. of application	Latest time of application
Spring barley	150 ml/ha	-	1	BBCH 69 (anthesis complete) 28 days before harvest
Winter wheat, Winter barley, Winter triticales, Winter rye	150 ml/ha	-	1	BBCH 75 (medium milk) 28 days before harvest
Winter oilseed rape	200 ml/ha	-	1	BBCH 19 (autumn application August-November). BBCH 59 (first petals visible, flower buds still enclosed, "yellow bud") 28 days before harvest

Label pests	Bird cherry oat aphid (<i>Rhopalosiphum padi</i>) – sp. barley & winter wheat, barley, triticale, rye. English grain aphid (<i>Sitobion avenae</i>) – sp. barley & winter wheat, barley, triticale, rye. Peach potato aphid (<i>Myzus persicae</i>) – OSR Rape winter stem weevil (<i>Ceutorhynchus piciparsis</i>) – OSR Cabbage stem weevil (<i>Ceutorhynchus pallidactylus</i>) – OSR Common pollen beetle (<i>Meligethes aeneus</i>) – OSR Cabbage stem flea beetle (<i>Psylliodes chrysocephala</i>) – OSR	
Additional activity	The primary targets are aphid species, which may be controlled through direct contact and via feeding after spray application. Note: Applications for control of adult weevils and beetles will not control larvae in soil or burrowing in stems.	
Time of application: DO NOT APPLY TO ANY CROP DURING FLOWERING	Spring barley: apply between BBCH 30 (stem elongation) and BBCH 69 (anthesis complete), between March and July. Winter wheat, barley, triticale & rye: apply between BBCH 21 (main shoot and one tiller) and BBCH 75 (medium milk). Winter oilseed rape: Autumn - apply between August and November when plants are between BBCH 11 (one leaf) and BBCH 19 (nine leaves). Winter oilseed rape: Spring – apply between April and June when plants are between BBCH 31 (1 st visibly stretched internode) and BBCH 59 (first petals visible, flower buds still enclosed, “yellow bud”).	
Wash-out	Standard procedure – thoroughly clean sprayer, including tank, hoses and filters after use.	
Agronomy Solutions	Spring barley: CARNADINE 150 ml/ha Winter wheat, barley, triticale & rye: CARNADINE 150 ml/ha <i>Apply when the crop is at the correct growth stage and at risk of damage from aphid vectors spreading BYDV.</i> <i>Decisions on application timing should consider the <u>T-Sum calculation of 170 day-degrees</u> from crop emergence, as well as <u>crop inspections</u> to confirm the presence of aphids at the time of spraying.</i> Winter Oilseed rape: CARNADINE 200 ml/ha.	
Water Volume	Minimum water (at full dose) -	Recommended water (label) 200-400 l/ha
Other Useful Information	Product must only be applied by horizontal boom sprayer fitted with 90% drift reducing nozzles across the full width of the boom. To protect bees and other pollinating insects, do not apply to flowering crops, or crops containing uncontrolled flowering weeds. Do not use in areas where bees are actively foraging. Applications made against chewing pests (e.g. CSFB) will be most effective where pests are active in the crop at the time of application and make direct contact with the spray.	
Best Use Advice	• Apply using a tractor mounted/trailed horizontal boom sprayer. • Maintain agitation throughout mixing and until spraying is completed. • Apply CARNADINE only as part of an integrated pest management programme, making use of non-chemical controls where available and sequence with alternative MOA. • Monitor insecticide performance – if control has been poor, do not reapply product. Use products with an alternative mode of action if necessary. • Do not apply to flowering crops, or crops at times when uncontrolled weeds are flowering and attractive to bees and other pollinators. • Angled nozzles may be useful to achieve adequate coverage of complex targets, e.g. broad leaf crop canopies and cereal ears.	
Tank Mix	Physically compatible with a wide range of crop protection products – consult Nufarm for latest available information.	
Pre-harvest interval	All approved crops – minimum 28 days before harvest	
Following Crop Information	No restrictions due to the use of CARNADINE on previous crops.	