

# KARATE ZEON® features and benefits



syngenta®

**KARATE® ZEON is an innovative high tech, patented water based encapsulated formulation, which delivers rapid release of the active ingredient (lambda-cyhalothrin) to the target site.**

KARATE ZEON contains 250g/L of lambda-cyhalothrin, a member of the synthetic pyrethroid (SP) group of chemicals. The active ingredient rapidly penetrates the cuticle of the target pest species. Once adsorbed, it disrupts the transmission of nerve impulses, leading to an immediate cessation of feeding, loss of muscular control, paralysis and eventually death.

KARATE ZEON features unique encapsulation technology that results in strong adhesion to the target site, provides UV protection and enhances its performance and safety relative to EC formulations or other active ingredients. The active ingredient is sealed in tiny, thin-walled capsules suspended in water, and is released upon contact with the leaf surface or target pests.

KARATE ZEON offers a range of features and benefits that most other SP insecticides can't match.

## Long lasting control

- KARATE ZEON can provide up to 10 days residual activity.
- KARATE ZEON provides UV protection which enhances the length of residual activity.

## Low application rates

- KARATE ZEON is a highly concentrated product that has a rate range of 9-36mL/ha in most winter crops.
- Low use rates also result in less packaging waste.

## Rapid knockdown

- KARATE ZEON provides rapid knockdown control of key insect pests including RLEM, Cockchafer, Aphids, Budworms, Cutworms, Thrips, Loopers, Diamond Back Moth and Cabbage White Butterfly.

- KARATE ZEON's wide range of registrations and short withholding periods enable it to be used from the start of the season to the very end.

## Rapid rainfastness

- ZEON Technology enhances adherence of the molecule to the target site. As a result, KARATE ZEON's has rapid and robust rainfastness.

## Quick capsule release

- KARATE ZEON microcapsules burst or deflate upon contact, releasing all of the active ingredient.
- Other encapsulation techniques including those used with the product Trojan\* are more ridged and can remain intact, resulting in slow active ingredient release.



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### Grazing and harvest flexibility

- With withholding periods ranging from 2-21 days for most broadacre crops, KARATE ZEON provides increased grazing and harvest flexibility when compared to most other insecticides.
- When used in Canola, Faba beans, Field peas, Chickpeas and Lupins, KARATE ZEON has a grazing and harvest withholding period up to 21 days shorter than alpha cypermethrin (eg Fastac\*).

### Excellent Compatibility

- KARATE ZEON is compatible with a wide range of herbicides, fungicides, insecticides and liquid fertilisers. Syngenta has tested the following products under laboratory conditions and shown them to be physically compatible when mixed in a single mix with KARATE ZEON<sup>#</sup>.

### Physical Compatibility

HERBICIDES					
2,-4D Amine and Ester	Brodal*	GESAPRIM®	LOGRAN B-POWER®	REGLONE®	Trifluralin
Achieve*	Bromicide MA*	GESATOP®	MCPA LVE and Amine	Select*	
Arcade*	CADENCE®	Glean*	Monza*	Sniper*	
Avadex Xtra*	Diuron	Glyphosate	Paradigm*	SPRAY.SEED®	
AXIAL®	Duet*	GRAMOXONE®	Paragon*	Tigrex*	
BOXER GOLD®	FUSILADE FORTE®	Hammer*	Pendamethalin	TOPIK®	

FUNGICIDES					
AMISTAR® XTRA®	BRAVO WEATHERSTIK®	COGITO®	Folicur*	Folicur*	Opus*
Prosaro*	TILT®				

INSECTICIDES					
Chlorpyrifos	Dimethoate	PIRIMOR®			

LIQUID FERTILISERS					
Flexi-N*	Flexi-NS*	Flexi-NK*			

PLANT GROWTH REGULATORS (PGRs)					
ERREX®	MODDUS EVO®				

<sup>#</sup> DO NOT mix concentrates together but add each to the spray tank separately. As formulations may change from time to time all mixtures should be tested prior to mixing commercial quantities.



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