

Environmental Information Sheet

SIGMA PCT MAFF/MAPP 11209

For CPA
Office use
only

A 460 g/L soluble concentrate formulation containing chlormequat chloride, a growth regulator, plus polymeric adjuvant for use on winter and spring wheat and winter barley.

Maximum application rate:

Winter wheat, winter barley 2.3L/ha

Spring wheat 1.1L/ha

Section	Profile
<p>1. WILDLIFE</p> <p>Mammals and Birds</p>	<p>Sigma PCT is not classified as '<i>Harmful to game and wildlife</i>'</p> <p>No risk management is necessary to protect wild mammals and birds. Chlormequat chloride, the active ingredient in Sigma PCT is of moderate toxicity to birds and mammals. The risk to wild mammals and birds grazing on treated crops is low.</p>
<p>2. BEES</p>	<p>No risk management necessary and there is no requirement to avoid application of the product when bees maybe foraging on flowering weeds.</p>
<p>3. NON TARGET INSECTS AND OTHER ARTHROPODS</p>	<p>No risk management necessary</p> <p>Sigma PCT poses a low risk to a range of arthropod species commonly found in and around treated fields.</p>
<p>4. AQUATIC LIFE</p>	<p>Sigma PCT is <i>harmful to aquatic organisms</i></p> <p>Sigma PCT is of low toxicity to fish and algae and of moderate toxicity to daphnia and certain aquatic higher plants such as duckweeds (<i>Lemna</i>).</p> <p><i>Do not contaminate surface waters or ditches with chemical or used container.</i></p> <p>No risk management necessary. When Sigma PCT is used according to the label instructions there will not be sufficient contamination of water to present a risk to aquatic life.</p> <p>Not categorised under the LERAP scheme.</p>

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<p>5. SOIL and GROUNDWATER</p> <p>Earthworms</p> <p>Soil Micro-organisms</p>	<p>Sigma PCT is of moderate persistence in the soil. Chlormequat chloride can be considered moderately mobile and it is unlikely that the substance will reach anaerobic soil layers. Use of Sigma PCT in accordance with the label presents a low risk to groundwater, therefore no risk management is necessary.</p> <p>Sigma PCT is of moderate toxicity to earthworms. Sigma PCT is unlikely to have any significant effects on earthworm populations. No risk management is necessary.</p> <p>No risk management necessary. No effects on soil microbial processes were found so the risk is considered low.</p>
<p>6. NON-TARGET PLANTS</p>	<p>When used according the product label, Sigma PCT should have no adverse effects on non-target plants. However as Sigma PCT is a plant growth regulator, care should be taken to avoid spray drift into non-target areas when applying close to field boundaries.</p>

ALWAYS READ THE LABEL: USE PESTICIDES SAFELY

Care must be taken to minimise the risk of surface water contamination from farmyard and field sources.

For further information about the environmental profile of this product contact:-

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This Environmental Information Sheet was prepared in accordance with CPA Guidance Notes Version 3.0

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