Environmental Information Sheet

SHARK© MAPP 11054

A 60 g/litre micro-emulsion formulation containing carfentrazone-ethyl (a triazolinone herbicide) used as a contact herbicide for the control of certain broad leaved weeds in potatoes, applying a rate of 0.33 litres product per hectare. Maximum no. of applications: 1/crop.

Section	Profile
1. WILDLIFE	Shark is not classified as '*harmful to game and wildlife*'.
Mammals and Birds	No risk management is necessary to protect mammals and birds. Shark is of low toxicity to mammals and birds and will therefore pose a low risk to grazing mammals e.g. rabbits, hares and deer that may consume recently treated weeds, or other mammals living in and around treated fields. The risk to mammals such as shrews consuming earthworms in fields treated with Shark will also be low. There will be low risk of adverse effects on birds nesting in or around treated fields or feeding on earthworms or insects in treated areas.
2. BEES	Low risk to bees. No risk management necessary and there is no requirement to avoid application of the product when bees may be foraging on flowering weeds.
3. NON TARGET INSECTS AND OTHER ARTHROPODS	No risk management necessary. Shark poses a low risk to a range of arthropod species commonly found in and around treated fields, including ground beetles (e.g. *Poecilus cupreus*), predatory mite (*Typhlodromus pyri*) and aphid parasites (*Aphidius rhopalosiphi)*.
4. AQUATIC LIFE	Shark is classified as '*Dangerous to fish or other aquatic life*'. Shark is harmful to algae and certain aquatic higher plants, such as duckweed (*Lemna*), and so care should be taken to minimise drift when applying Shark next to ponds, ditches or open water. Care must be taken to ensure that surface waters or ditches are not contaminated with the product or the used container. No risk management necessary. When used according to the label instructions there will be insufficient contamination of water to present a risk to aquatic life. Not categorised under the LERAP scheme.

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5. SOIL and GROUNDWATER	Shark is of low persistence in soil. The active ingredient is however highly mobile in soil although no risk management is necessary providing the maximum rate of use of 0.33 litres product per hectare and the maximum number of treatments is not exceeded (refined risk assessment has shown that the potential concentration of the active substance or relevant metabolites in groundwater will be below 0.1 μg/litre).
Earthworms	Shark is of moderate toxicity to earthworms, however, at the recommended application rate the risk to earthworms is low and no risk management is necessary.
Soil Micro-organisms	Shark is unlikely to have any long-term effect on soil microbial activity. The risk is therefore considered to be low. No risk management is necessary.
6. NON-TARGET PLANTS	Shark is a broad-spectrum herbicide and may be harmful to some species of wild plants that are found at the margins of fields. Care must be taken to avoid drift onto broad-leaved plants outside of the target area.

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 dated October 2002.