

Environmental Information Sheet

SAMURAI

MAPP 16238



A soluble concentrate containing 360 g/l glyphosate present as 441g/l (35.3% w/w) of the potassium salt of glyphosate used a foliar application for the non-selective control of annual and perennial weeds before sowing or planting of all crops.

For use pre-emergence and pre-harvest in cereals and certain other crops, for destruction of grassland, and use in stubbles and orchards, and non-crop areas. Maximum application rates vary per weed and situation. Maximum number of applications per annum vary per situation. Refer to the label for details.

Section	Profile
1. WILDLIFE	Samurai is not classified as ' <i>Harmful to game or wildlife</i> '
Mammals	Samurai shows low toxicity to mammals. It poses negligible risk for species that feed on recently treated vegetation (e.g. hares, rabbits, deer) or consume earthworms in treated fields (e.g. shrews, voles). There is no long-term exposure to this herbicide as treated weeds are controlled and are thus no longer present as potential food sources.
Birds	Samurai is of low toxicity to birds. There is negligible risk to geese and other birds that could feed on recently treated vegetation. There is also negligible risk for species nesting in and around treated fields or consuming insects and earthworms from treated areas.
2. BEES	Samurai is of low toxicity to honeybees; there is no requirement to avoid application of the product when bees are foraging on flowering weeds.
3. NON TARGET INSECTS AND OTHER ARTHROPODS	At typical use rates, Samurai is of low risk to most species commonly found in and around treated fields, including carabid beetles and ground spiders. In areas where the herbicide is applied, the loss of vegetation will lead to habitat changes and may thereby temporarily affect arthropod populations. The arthropods will however rapidly return as vegetation re-grows.
4. AQUATIC LIFE	Samurai is not considered as ' <i>harmful to aquatic life</i> ', being of low toxicity to fish, aquatic invertebrates (e.g. water fleas) and green algae. As part of a weed management programme, there is low risk for aquatic life from spray drift. Care should be taken to ensure that surface water and ditches are not contaminated with the chemical or used containers.

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5. SOIL and GROUNDWATER	Samurai is rapidly and extensively degraded in soil by indigenous soil micro flora, under both aerobic and anaerobic conditions. The degradation of Samurai is dependent on soil type and temperature but is independent of the initial herbicide concentration. Samurai does not accumulate in soil after several applications within one season or over the years. Samurai is strongly adsorbed to soil and possesses very little potential for leaching. There is a negligible risk of groundwater contamination by Samurai due to the high adsorption, low mobility and rapid biodegradation in soil.
Earthworms	Samurai is of low toxicity to earthworms and will pose a negligible risk to earthworm populations in or around treated fields.
Soil Micro-organisms	Samurai has no adverse effects on soil micro flora and therefore poses negligible risk to the processes of nutrient recycling in soil.
6. NON-TARGET PLANTS	To avoid unintentional effects on the vegetation of non-target areas(e.g. field boundaries, conservation headlands, beetle banks), care should always be taken to minimise drift. The use of low drift application equipment and unsprayed strips is recommended.

USE HERBICIDES SAFELY. ALWAYS READ THE LABEL AND PRODUCT INFORMATION BEFORE USE

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 4

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