

Environmental Information Sheet

Helix® MAPP 18289



An emulsifiable concentrate formulation containing 160 g/l prothioconazole (triazolinthione) and 300 g/l spiroxamine (spiroketal amine) A fungicide for the control of stem-base, foliar and ear diseases in winter wheat, winter rye and winter and spring barley and oats.

Maximum individual dose: 1.25 litres product per hectare

Maximum number of treatments: 2 per crop

Latest time of application: Winter wheat and rye before caryopsis watery ripe stage (GS 69)

Winter and spring barley and oats up to beginning of anthesis stage (GS 61)

Other specific restrictions: There must be a 21 day interval between treatments. Only one application may be made before 30 April followed by a second application after 1 May. Alternatively two applications can be made after 1 May.

Section	Profile
1. WILDLIFE Mammals and Birds	Helix is not classified as " <i>Harmful to game, wild birds and animals.</i> " No risk management is necessary to protect mammals and birds. Helix is of moderate toxicity to mammals and birds. The risk to wild mammals and birds grazing on treated areas is low, as is the risk due to exposure from other routes, e.g. consumption of earthworms or other invertebrates such as insects.
2. BEES	No risk management necessary The active substances within Helix are of low toxicity 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 Helix poses a low risk to a range of arthropod species commonly found in and around treated fields, e.g. ground beetles, lady birds and aphid parasitoids.
4. AQUATIC LIFE	Helix is classified as " <i>Very toxic to aquatic life with long lasting effects.</i> " <i>Do not contaminate water with the product or its container.</i> (Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads). Risk management is essential Helix can be used safely providing care is taken to prevent spray drift reaching surface waters. The following risk management practices must be carried out in order to ensure that there is adequate protection of aquatic species.

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4. AQUATIC LIFE	<i>'HORIZONTAL BOOM SPRAYERS MUST BE FITTED WITH THREE STAR DRIFT REDUCTION TECHNOLOGY. Low drift spraying equipment must be operated according to the specific conditions stated in the official three star rating for that equipment as published on HSE Chemicals Regulation Directorate's website. Maintain three star operating conditions until 30 m from the top of the bank of any surface water bodies. DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within the distance specified for the crop to the top of the bank of a static or flowing water body, or within 1 m of the top of a ditch which is dry at the time of application. Aim spray away from water.'</i> NOTE: BUFFER ZONES OF MORE THAN 5 M CANNOT BE REDUCED UNDER THE LOCAL ENVIRONMENT RISK ASSESSMENT FOR PESTICIDES (LERAP) SCHEME
5. SOIL and GROUNDWATER	Prothioconazole is non-persistent in soil, spiroxamine is of moderate persistency in soil, both have low mobility in soil. Therefore, use of Helix according to the label presents a low risk to groundwater.
Earthworms	Prothioconazole & spiroxamine are of low toxicity to earthworms. No risk management is necessary, when Helix is used according to the label
Soil Micro-organisms	Helix is of low risk to soil micro-organisms. No risk management necessary in order to prevent risks to the processes of soil respiration and nitrogen turnover.
6. NON-TARGET PLANTS	No effects on non target plant species are expected when Helix is used as recommended.

Use plant protection products safely. Always read the label and product information before use. For further product information including warning phrases and symbols refer to www.cropscience.bayer.co.uk

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

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