

# Environmental Information Sheet

## NIRVANA MAPP 14256



An emulsifiable concentrate formulation containing 16.7 g/l imazamox (an imidazolinone herbicide) and 250 g/l pendimethalin (a dinitroaniline herbicide) for use in combining peas, vining peas and spring and winter field beans.  
 Maximum individual dose: 4.5 litres product/hectare  
 Maximum number applications: One per crop

Section	Profile
<p><b>1. WILDLIFE</b></p> <p><b>Mammals and Birds</b></p>	<p>Nirvana is not classified as '<i>Harmful to game, wild birds and animals</i>'.</p> <p>No risk management is necessary to protect wild birds and animals. Imazamox is of moderate toxicity to birds and low toxicity to mammals. Pendimethalin is of moderate toxicity to birds and low toxicity to mammals. The risk to wild birds and animals grazing on treated areas is low as is the risk due to exposure from other routes e.g. consumption of insects and earthworms.</p>
<p><b>2. BEES</b></p>	<p>No risk management necessary. Nirvana is of low risk to bees.</p>
<p><b>3. NON TARGET INSECTS AND OTHER ARTHROPODS</b></p>	<p>No risk management necessary. Nirvana poses a low risk to a range of arthropod species commonly found in and around treated fields, including carabid beetles, ground beetles, lacewings and spiders.</p>
<p><b>4. AQUATIC LIFE</b></p>	<p>Nirvana is classified as "<i>Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.</i>"</p> <p>Nirvana is of high toxicity to fish and aquatic invertebrates e.g. water flea and of extreme toxicity to green algae and aquatic plants.</p> <p><i>"Do not contaminate water with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads."</i></p> <p>Risk management is essential. Nirvana 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 for aquatic species. <i>"DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5m of the top of the bank of a static or flowing water body, or within 1m of the top of a ditch which is dry at the time of application. Aim spray away from water."</i></p> <p>LERAP Category B. Buffer zones may be reduced (see LERAP Guidelines).</p>

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<p><b>5. SOIL and GROUNDWATER</b></p> <p><b>Earthworms</b></p> <p><b>Soil Micro-organisms</b></p>	<p>No risk management necessary. Imazamox is moderately persistent in soil and is of high mobility. Pendimethalin is very persistent in soil and is strongly bound to soil and can be considered not mobile. Modelling studies have shown the risk of groundwater contamination from the use of Nirvana is low when used according to label recommendations.</p> <p>No risk management necessary. Imazamox and pendimethalin are of moderate toxicity to earthworms. At the recommended application rate, the risk to earthworms is low.</p> <p>No risk management necessary. At the recommended application rate, Nirvana has negligible effects on soil microbial respiration, on nitrogen turnover and on straw decomposition. The risk to soil microbial activity is therefore low.</p>
<p><b>6. NON-TARGET PLANTS</b></p>	<p>Nirvana is a herbicide for control of broad-leaved weeds.</p> <p><i>“Extreme care should be taken to avoid damage by drift onto crop and non-crop plants outside the target area.”</i></p> <p>Care should also be taken to minimise drift of Nirvana onto conservation headlands, beetle banks and field boundaries such as hedgerows, which may provide an important habitat for wild flowers</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 4.

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