

# Environmental Information Sheet

## Betanal® Turbo MAPP 15505



An emulsifiable concentrate containing 160g/L (15.5 % w/w) phenmedipham, and 160g/L (15.5 % w/w) desmedipham (both carbamates), combined as a selective post-emergence herbicide for use on many broad-leaved weeds in sugar beet, fodder beet and mangels.

Maximum individual dose: 1.0 L product per ha

Maximum Total dose: 3.0 L product per ha

Section	Profile
<b>1. WILDLIFE</b>  <b>Mammals and Birds</b>	<p>Betanal Turbo is not classified as <i>"Harmful to game, wild birds and animals"</i></p> <p>No risk management necessary to protect mammals and birds. The active substances within Betanal Turbo are of low to moderate toxicity to mammals and birds. The risk to wild mammals and birds due to exposure from, for example, the consumption of earthworms, is low.</p> <p>However, the following restriction is required for the uses on fodder beet and mangels:</p> <p>'Fodder beet or mangels must not be grazed by livestock or harvested for animal consumption until at least 35 days following the last application of 'Betanal Turbo'</p>
<b>2. BEES</b>	<p>No risk management necessary.</p> <p>Betanal Turbo is of low risk to bees.</p>
<b>3. NON TARGET INSECTS AND OTHER ARTHROPODS</b>	<p>No risk management necessary.</p> <p>Betanal Turbo poses a low risk to a range of arthropods found in and around treated fields.</p>
<b>4. AQUATIC LIFE</b>	<p>Betanal Turbo is classified as <i>"Very toxic to aquatic life with long lasting effects."</i></p> <p>Betanal Turbo is of extreme to high toxicity to aquatic invertebrates, fish, algae and other aquatic plants. Care must be taken to ensure that surface waters or ditches are not contaminated with the product or the used container.</p> <p>Risk management is essential. Betanal Turbo 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.</p> <p>"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."</p> <p>LERAP Category B. Buffer zones may be reduced (see LERAP Guidelines).</p>

# Environmental Information Sheet

## Betanal® Turbo MAPP 15505



Section	Profile
<b>5. SOIL and GROUNDWATER</b>  <b>Earthworms</b>  <b>Soil Micro-organisms</b>	<p>Phenmedipham, and desmedipham and their metabolites are low to impersistent in soil. They are also of low to moderately mobility in soil. Use of Betanal Turbo according to the label presents a low risk to groundwater.</p> <p>No risk management necessary.</p> <p>Betanal Turbo is of moderate toxicity to earthworms. At recommended application rates, however, the risk to earthworms is low.</p> <p>No risk management is necessary.</p> <p>Betanal Turbo is unlikely to have any long term effect on soil microbial activity. The risk is therefore considered to be low.</p>
<b>6. NON-TARGET PLANTS</b>	<p>Betanal Turbo is a broad-leaved herbicide and may be harmful to some species of wild flowers that are found at the margins of fields. Care should always be taken to minimise drift when applying this product close to field boundaries that contain wild flowers.</p>

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](http://www.cropscience.bayer.co.uk)

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:

**Bayer CropScience Limited**  
**230 Cambridge Science Park**  
**Milton Road**  
**Cambridge**  
**CB4 0WB**

Bayer CropScience Assist Technical Help-Line: 0808 1969522

Betanal® and Turbo® are registered trademarks of Bayer  
 © Bayer CropScience Limited 2013.