

# Environmental Information Sheet

## Serenade ASO® MAPP 16139



A suspension concentrate containing 1015.1 g/L *Bacillus subtilis* strain QST 713 (including fermentation residues and water) for the reduction of fruit damage caused by grey mould (*Botrytis cinerea*) on protected strawberry crops.  
 Maximum individual dose rate = 10.0 L/ha  
 Maximum number of treatments = 6 per crop  
 Latest time of application = 0 Days before harvest.

Section	Profile
<b>1. WILDLIFE</b>  <b>Mammals and Birds</b>	<p>Serenade ASO is not classified as 'Harmful to game, wild birds and animals'.</p> <p>No risk management is necessary to protect mammals and birds. Serenade ASO is of low toxicity to mammals and birds. It 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 Serenade ASO will also be low.</p> <p>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.</p>
<b>2. BEES</b>	<p>No risk management necessary and there is no requirement to avoid application of the product when bees may be foraging on flowering weeds.</p>
<b>3. NON TARGET INSECTS AND OTHER ARTHROPODS</b>	<p>No risk management necessary. Serenade ASO poses a low risk to the range of arthropod species commonly found in and around treated fields.</p>
<b>4. AQUATIC LIFE</b>	<p>No risk management necessary. Not considered harmful to fish or other aquatic life when used as directed. However care should always be taken to ensure that surface waters or ditches are not contaminated through spillage or with the used container.</p> <p>Not categorised under the LERAP scheme.</p>

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<b>5. SOIL and GROUNDWATER</b>  <b>Earthworms</b>  <b>Soil Micro-organisms</b>	<p>Use of Serenade ASO according to the label presents a low risk to soil and groundwater. No risk management necessary.</p> <p>Serenade ASO is of low toxicity to earthworms. No risk management necessary in order to prevent risks to earthworms.</p> <p>No risk management necessary. No effect on soil microbial processes were found and so the risk is considered to be low.</p>
<b>6. NON-TARGET PLANTS</b>	<p><i>Bacillus subtilis</i> strain QST 713 has negligible activity on plants and consequently, Serenade ASO should have no adverse effect on field margin plants.</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)

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

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