

PRODUCT GUIDE: Lake Relief

PURPOSE:	<ul style="list-style-type: none">• IMPROVING WATER CLARITY BY FILAMENTOUS ALGAE CONTROL
Content:	<ul style="list-style-type: none">• 6 strains of (Class 1) bacteria (1×10^{12} per sachet)• Organic, biodegradable carrier• Water soluble plastic sachets
Pack size:	<ul style="list-style-type: none">• A bucket contains 25 sachets, each weighing 454g or 20 sachets each weighing 200g in a cardboard box
Application rate:	<ul style="list-style-type: none">• For ponds of average depth < 1 metre: Treatment: 300g/100m² every 30 days Maintenance: 120g/100m² every 30 days• For ponds of average depth > 1 metre: Treatment: 500g/100m² every 30 days Maintenance: 200g/100m² every 30 days
Application timing:	<ul style="list-style-type: none">• Water temperatures should ideally be above 10 °C (with some activity at 8 °C)• As light levels increase, treatments normally commence in late spring• Continue treatment monthly (or as required) until autumn• Timing of applications should take into account the Influential factors (see below)
Product action:	<ul style="list-style-type: none">• Bacteria cultures multiply utilising nitrogen and phosphorus• As nutrients are consumed by microbes, the algae is starved• Consequently algae diminishes, water becomes clearer and odours decrease• Improves water nutrient balance and enhances water quality
Expected results:	<ul style="list-style-type: none">• Within minutes of application, sachets dissolve so releasing microbes from carrier• In 5 to 10 days algae should begin to breakdown in areas where the sachets applied• Over 14 to 21 days algae will gradually disappear from the treated areas• 3 to 4 weeks after application Lake Relief will normally have peaked in its effect• In some circumstances, product results vary with Influential factors (see below)
Best practice:	<ul style="list-style-type: none">• Prior to treatment, ensure that:<ol style="list-style-type: none">1. algae to be controlled is the correct filamentous type2. water temperature is at sufficient level >10 °C3. water has a pH between 5.5 and 8.5• Where algae regularly forms on yearly basis, apply prior to expected outbreak• Aerate water by some means, to introduce oxygen and create some water movement• Where algae covers part of pond apply Lake Relief to this area only (+ 2m margin)
Influential factors:	<p>Lake Relief has a biological activity, therefore certain environmental factors will cause some variation in the outcome of the product. These factors include:</p> <ul style="list-style-type: none">• <u>Water nutrient levels</u>: Algae growth will increase with nutrient availability in water, which in turn will be influenced by:<ol style="list-style-type: none">a. Nutrient levels in the water source (including fish and water fowl waste)b. Fertiliser applications on surrounding landc. Rainfall and surface run-off into the pond• <u>Light and temperature</u>: Although often related, both daylight levels and water temperatures will influence the vigour of algae growth by:<ol style="list-style-type: none">a. Longer day lengths, which provide more growth opportunityb. Water surface temperature, influenced by sunlightc. Temperature of water, from either surface or underground sources• <u>Water flow</u>: The movement of water will affect the ability of the microbial population to function effectively due to:<ol style="list-style-type: none">a. Oxygen supplied by aeration, which is required by microbes to reproduceb. Water current, which if fast flowing can diminish the microbial population
Notes:	<ul style="list-style-type: none">• Safe for fish, wildlife and aquatic organisms• Not to be used on potable water sources

