

REGEN-Enhancer®

Boost Algaecide Performance, Degrade Dead Matter

REGEN-Enhancer is a natural catalyst that accelerates chemical treatments by improving penetration. When mixed with an algaecide or herbicide it speeds the breakdown of dead algae and aquatic plants while stimulating naturally occurring bacteria to fixate nutrients liberated during this process. By accelerating chemical reactions, REGEN-Enhancer improves copper algaecide performance. This is especially critical in hard water applications when copper solubility and performance is reduced. REGEN-Enhancer alone will not kill aquatic plants and algae.

PRODUCT HIGHLIGHTS

- Biocatalyst that improves the efficiency of chemical treatments
- Dissolves dead algae or aquatic plants on a cellular level
- Speeds chemical reactions and penetration of algaecides and herbicides
- Aids in hard water applications



REGEN-Enhancer is available in multiple container sizes: 5, 10, 200 and 1000 L

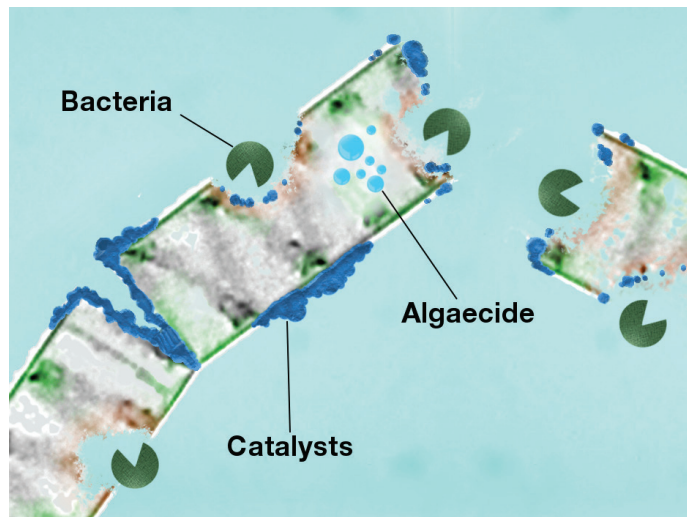


Diagram shows REGEN-Enhancer lysing and dissolving dead plant material quickly.

APPLICATIONS

- Lakes and ponds
- Aquaculture
- Hatcheries
- Water feature
- Golf courses
- Retention ponds
- Decorative ponds
- And more!

BENEFITS

- Used as an adjuvant
- Speeds chemical reactions
- Cleans up dead plant matter
- Rainfast via improved absorption
- Less chemical use
- Safe for environment and applicator

DOSAGE RATE WHEN MIXED WITH ALGAECIDE/HERBICIDE

Surface Hectares	Filamentous Algae	Planktonic Algae*	Aquatic Plants*
0.1	0.5 - 3 L	0.5 - 0.75 L	0.5 - 2 L
0.25	1 - 5 L	0.75 - 1 L	1 - 5 L
0.5	2 - 6 L	2 - 5 L	2 - 7.5 L
2	10 - 50 L	10 - 25 L	10 - 30 L
5	20 - 100 L	20 - 40 L	20 - 60 L
50	200 - 1000 L	75 - 400 L	200 - 750 L

*Best when mixed with AquaSticker for planktonic algae and aquatic plants

COMMONLY TREATED ALGAE AND PLANTS

FILAMENTOUS ALGAE

- *Pithophora*
- *Cladophora*
- *Spirogyra*
- *Hydrodictyon*

PLANKTONIC ALGAE

- *Aphanizomenon*
- *Chlamydomonas*

AQUATIC PLANTS

- *Hydrilla*
- *Hygrophila*
- Torpedograss
- Alligator weed
- Duckweed
- *Salvinia*
- Other plants

THE SCIENCE BEHIND IT

CONTACT ALGAECIDES

Contact algaecides (copper products, peroxides, and diquat) must contact the cell wall and enter the cell to be effective. [REGEN-Enhancer degrades dead plant cell walls and weakens cellular integrity](#) when used with an algaecide formulation. Killing all susceptible cells reduces the risk of algae developing any resistance to chemical treatments.

Some filamentous algae, *Pithophora* for example, use akinetes ("survival cells") to store vital growth components and protect themselves from distress. These cells are characterized by thick cell walls. This helps the cells resist chemical attack and allows for regrowth when conditions become more favorable. REGEN-Enhancer dissolves the walls of dead cells and akinetes and breaks down stored carbohydrates when combined with contact algaecides.

SYSTEMIC HERBICIDES

Systemic herbicides (i.e. glyphosate, imazapyr, or triclopyr) travel through the cell disrupting processes such as amino acid synthesis, cell division, and photosynthesis. Systemic herbicides tend to work slower, but they do translocate into multiple parts of the plant. For this reason, [we focus on a complete degradation of the dead plant structure](#) and aquatic herbicide dispersion to all susceptible cells.

When combined with systemic herbicides, [REGEN-Enhancer speeds movement into the cells](#) by breaking down the cellular framework of dead cells, promoting rapid nutrient recovery, and decomposing dead plant material from the inside out. REGEN-Enhancer works synergistically with systemic herbicides and ensures thorough and complete degradation of dead aquatic plants.