World’s first selective Algicide based on medicine for harmful algae

GreenTD®
World’s first selective Algicide based on medicine for harmful algae

GreenTD°

**Application method**

<table>
<thead>
<tr>
<th>Spraying method of GreenTD°</th>
</tr>
</thead>
<tbody>
<tr>
<td>Harmful algae cause damage by fast growth in water depths deeper than approximately 30 cm and 1 m, respectively. Therefore, to allow GreenTD° to be dispersed evenly to the water depths in which harmful algae grow, a GreenTD° diluent should be prepared and sprayed using a high-pressure jet or a diffusion solution discharger. Special care should be taken to prevent GreenTD° from becoming concentrated at one place in fish farms.</td>
</tr>
</tbody>
</table>

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<tr>
<th>Application of GreenTD°</th>
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<td>GreenTD° should be sprayed at the concentration of 0.1 ~ 0.5 ppm depending on the number of harmful algae.</td>
</tr>
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</table>

**Product**

**GreenTD°**
- **Recommended dosage**: 0.1 ~ 0.5 ppm

**Type**
- **Powder**

**Packaging**
- 100 g, 500 g, 1 kg, 30 kg

**Use**
- Harmful algae Treatment

**Storing Method**
- Store in a dry, cool, and dark place and keep out of reach of children

**Content**
- DCEP Min. 90% (w/w)

**Domestic patent**
- No. 10−1819190
Green algae reduction technology test

**Distinctively high efficiency and persistence of GreenTD®**
- The number of green algae cells decreased by 60% or higher in one hour, and 90% or higher in 5 days after treatment with GreenTD®.
- GreenTD® was only certified as the excellent green algae reduction technology among the 11 participants at field test in August 2017 under the supervision of Korea Water Resources Corporation.

Changes in the number of green algae cells with time-dependent after GreenTD® treatment 0.5 ppm.

Domestic field applications

**Green algae reduction technology test**

- The number of green algae cells decreased by 60% or higher in one hour, and 90% or higher in 5 days after treatment with GreenTD®.
- GreenTD® was only certified as the excellent green algae reduction technology among the 11 participants at field test in August 2017 under the supervision of Korea Water Resources Corporation.

The water color around the water wheels changed clearly as the harmful algae were reduced.

Overseas field applications

**Effects of application to a shrimp farm**

Green algae control field test in a shrimp farm in Ujung Kulon, Indonesia.

Photographs comparing the inside and outside of the field 5 days after spray

High selective algae control capability of GreenTD®

Change in the number of harmful/non-harmful green algae cells over time after treatment with 0.5 ppm of GreenTD®

Selective algicidal activity

Low toxicity

High algicidal efficiency

Persistent effects
Toxicity and Efficiency evaluation of GreenTD®

In a toxicity evaluation of GreenTD® using ricefish, no effect was observed even at a concentration of approximately 100 times higher than the treatment concentration.

<table>
<thead>
<tr>
<th>Ricefish toxicity experiment</th>
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<tbody>
<tr>
<td>Evaluation of harmful red algae removal efficiency</td>
</tr>
<tr>
<td>Evaluation agency: KIOST (Korea Institute of Ocean Science &amp; Technology)</td>
</tr>
<tr>
<td>Evaluation criteria: Notified criterion of red algae removal efficiency.</td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th>Variable</th>
<th>Toxicity</th>
<th>Efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD₅₀</td>
<td>2000 mg/kg bw</td>
<td></td>
</tr>
<tr>
<td>Nontoxic amount</td>
<td>90 mg/kg bw/day</td>
<td></td>
</tr>
</tbody>
</table>

• High algicidal activity of approximately 90% at 30 min after treatment with GreenTD®.
• 90% or higher than the notified criterion is evaluated as “the very best.”
• Bacteria having residue resolving power increases rapidly.

Acute oral toxicity study of GreenTD® in rat

Repetitive dose 28 days oral toxicity study of GreenTD® in rats

No toxic amount 50 mg/kg bw/day

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