



Pond Maintenance Programme

Dear Customer,

water is the key element of all garden ponds and biotopes, and it is a significant factor in all vital exchange processes between vegetation and animals. It is essential that the water contain a variety of soluble materials, trace elements and gases in the right quantity and proportion. This is the only way for a healthy environment, resistant to stagnation, to develop in your pond. Lavaris Lake products offer a solution to 98 % of all water problems and helps to prevent the problems in the first place.

This pond care calendar was created to guide you in applying Lavaris Lake products properly and effectively. It describes all of the necessary measures in the proper sequence. We are confident that this schedule and our Lavaris Lake products will help you to enjoy your pond or lake for many years to come.

→ **It is imperative that water values be tested regularly! Testing must always occur at the same time of day, whereby the pH-value should be measured in the evening, since it rises throughout the day.**

This ensures that irregularities are detected and countermeasures implemented before the problem gets out of hand. We have prepared an overview of the essential water parameters as a separate information sheet.

I. NEW POND / START IN SPRING

The carbonate hardness should always be at least 5° dH and the pH-value between 7.5 and 8.5! If the values are not within these ranges, the natural balance should be restored by applying **OptiLake**.

→ **OptiLake – basic care for lakes and ponds**

- Improves water quality and creates an ideal habitat for the pond population
- Increases carbonate hardness and prevents fluctuations in pH-value
- Helps to prevent excess heavy metals and ammonia poisoning
- Essential when using rain water

When a new pond is created, we recommend applying **SeDox** (double dosage), in existing ponds the single dosage. This permanently eliminates copper and other metal from the water. **SeDox** causes phosphate (e.g. in the water or the plant soil) to bond completely and be converted to apatite. This prevents algae from growing quickly, because the nutrients that the algae need are no longer available. However, the phosphates remain accessible as nutrients to the other plants in the form of apatite.

→ **SeDox – insoluble phosphate bonding**

- The phosphate dissolved in the water bonds to form apatite; 100 % bio-compatibility
- Active oxygen due to greatly increased nitrogen decomposition.
- Better sludge decomposition
- Purely mineral, no heavy metals or aluminium
- Works for 6 – 8 weeks

Then begin the biological process with **ClearLake** (water micro-organisms, year round care). **ClearLake** should be used only when the water is at least 10 °C.

→ **ClearLake – natural bacteria**

- Enhances and accelerates the biological self-purification process of the water
- Limits algae bloom and helps to achieve biological equilibrium
- Combats decay and formation of hazardous gas
- Activates the biological decomposition of sunken leaves, dead plants, feed residue, etc.

Prevent Blue-green and other Algae with AlgoClear

Conventional algae such as suspended algae (water appears green) or thread algae do not look nice, but they are relatively harmless. Blue-green algae (recognized by thick, slimy, shimmering blue-green clumps floating on the pond surface) on the other hand, can produce hazardous substances in the water and often trigger allergies, nausea, rashes and asthma!

→ **AlgoClear – the special formula for fighting algae**

- Immediate remedy for stubborn algae formation
- Effectively prevents blue-green algae from blooming and reduces new growth

-> HANDLE ALGICIDES WITH CARE.

READ PACKAGE AND PRODUCT INFORMATION BEFORE USING!

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2. DURING THE POND SEASON

Rule of thumb: Carbonate hardness never under 5° dH, pH-value never over 9!

If the KH-value is low and the pH-value fluctuates, or if unsuitable water is used for the pond, we recommend applying **OptiLake** to stimulate the microbiological process!

If there is a problem with algae, **AlgoClear/AlgoLon®** and **SeDox** should be used again as described above.

For thorough oxygenation of the water and sediment as well as to prevent germs and marsh gas (colour and cloudiness), we recommend applying **OxyActive**.

→ **OxyActive – oxygen control**

- Remedies acute oxygen deficiency and regulates the water's oxygen content
- Promotes sustained biological self-purifying capacity

For healthy plants and bright colours, we recommend using **AquaFloraEnergien** during the entire vegetation period, particularly in a new pond or when lack of oxygen is severe.

→ **AquaFloraEnergien – bright colours, healthy plants**

- Provides vital plant nutrients and prevents lack of nutrients
- Strengthens and activates plant growth and makes the blossom colours brighter
- Increases the resistance of plants to external factors
- Phosphorous-free

Mid August or later:

ClearLake, to ensure urea decomposition

3. AUTUMN / END OF SEASON

To best prepare the pond for the approaching winter months, we recommend applying **SeDox** in September/October to bond the phosphate. This will prevent algae bloom, which can happen even during the winter if there are a few sunny days. Also, **SeDox** releases oxygen in the water, which benefits the plants and organisms.

If you do not have a way to vacuum the deposits from the bottom of the pond, they can also be removed with our product **SiltEx**.

→ **SiltEx – Sludge Eliminator**

- Mikroorganisms and active oxygen make it doubly effective in combating deposits, decay and the formation of hazardous gases
- Bonds Phosphorous and prevents algae bloom; optimal for biotopes, too

One **OptiLake** treatment should also be administered to stabilize the biological equilibrium and to break down hazardous substances (ammonium, nitrite, heavy metals).

4. ALL YEAR ROUND: AlgoLon®

Destroys excessive thread algae with active oxygen. Sprinkle **AlgoLon®** directly onto the thread algae nests. Use in the morning!

-> HANDLE ALGICIDES WITH CARE. READ PACKAGE AND PRODUCT INFORMATION BEFORE USING!

→ **AQUACHECK®-Set – testing like a professional**

- Always indicates the precise pH-value, KH-value (carbonate hardness) and nitrite value, regardless of the temperature
- Easy to use, with professional measuring instruments

→ **Water Analysis – in our DIN-certified laboratory**

- Just request an analysis bottle and then send it back to us to be analysed in our lab.

Dosage:

OptiLake	100 g/m ³	ClearLake.....	50 g/m ³
SeDox.....	30 g/m ³	OxyActive.....	100 g/m ³
AlgoLon®	30 g/m ³	pH-Minus.....	250 ml/m ³
AlgoClear.....	50 ml/m ³	SiltEx	30 g/m ³
AquaFloraEnergien	100 g/m ³		

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ATTENTION!

Always sprinkle **powder products directly** into the pond – never mix in a small container before application!

Liquid products, on the other hand, must first be **diluted!** Dilute as instructed!

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