



Greenacle

Odor Treatment and Waste Management



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Greenacle - About Us

- Greenacle is Dutch company with the carefully selected biological products line.
- Our vision is “Help the nature!”
- Our mission is “Natural recycling cycle – replacement of products harmful to the nature with the products harmless to the nature that helps nature recycling own resources by maintaining diverse biological environment and micro fauna”.
- Greenacle is general distributor of products based on brown seaweed (Ascophyllum Nodosum) made in Europe. All products are based on unique proprietary technology with open cell structure of brown seaweed. This technology allows us to outperform any other competitive product in the market.



Greenacle Product Line

- “End to End” Waste management solution:
 - Odor treatment;
 - Vehicles and containers washing;
 - Biological waste degradation;
 - Composting;
 - Industrial waste water sanitation;
 - Community waste treatment;
 - Biogas plants
- Crude oil and oil derivatives bioremediation in the soil and on the water,
- Bioremediation of heavy metals;
- Oil collecting equipment for crude oil spills on water;
- Detox soil;
- Erosion prevention;
- Plant treatment for improved soil, crop and yield;
- And other products.



About the Product

- Entire product line is certified “ORGANIC” in accordance with the laws and regulations of EU for production and labeling of products for human and animal usage.
- All our products are certified for sales and usage in ecosystems in all member states of EU without special permissions.
- Our product is based on fiber extracted from brown seaweed. After standard extraction process we apply our proprietary process to unlock cells (breaking cell shield). The cell core becomes directly accessible for microorganisms. This allows us to achieve far better results than competitive products based on brown seaweed.
- Main properties:
 - Color: dark brown.
 - State: liquid or granulate.
 - Smell: concentrate has strong smell that disappears within seconds when mixed with water;
 - Expiration: at least two years in original package, stocked on temperatures lower than 30 degrees Celsius. Low temperature are no issue. It can be freeze, defreeze and used.
 - Expiration when mixed with water: product must be used within 48 hours after mixing with the water. After that effects might be reduced or lost.
 - Although the product is harmless for humans, animals, insects, plants and soil, we recommend to keep it out of reach of children and to use eye and respiration protection when spraying.



How it Works – Odor Treatment

- The product is improving activity of bacteria in every natural environment.
- When using solution, “good” bacteria are multiplying 20-200 times in very short time frame. It means they perform their natural role more actively by degrading biological waste or saturating heavy metals.
- When natural role of bacteria is completed, hence no more degradation or saturation needed, there is no more excessive food for these bacteria, most of them will die and bacteria count will return to the natural balance.
- We do not introduce any new species in the environment, rather, we use existing bacteria, which we multiply in numbers.
- In principle, the same will happen in the regular natural way, we just speed up the process 20-200 times!
- During the odor treatment the following will happen:
 - Ammonia (NH_3) is transferred to ammonium NH_4 ,
 - Sulfur is encapsulated by water, it falls on the floor where degradation and saturation continues.
 - This prevents odor from rising into the air, hence preventing the smell.
 - With the regular usage in depots you will achieve long term odor removal and at the same time improved degradation of bio-waste.



Solution Preparation

- Add to the container required volume of water for the treatment.
- Add to the water Greenacle “Odorless” or Greenacle “Remediator” concentrate in the ratio specified for specific treatments. Concentrate has strong smell that will disappear within seconds once mixed with the water.
- **Always add concentrate to the water and not vice versa!**
- Wait for few minutes and solution is ready for usage.
- Fill the sprayers with the solution and perform the treatment.
- Pr product must be used within 48 hours after mixing with the water. After that effects might be reduced or lost.



Application and Effects

- Spray the solution in “foggy manner”, as high in the air as possible, and let it fall to the ground. Use prescribed ratios precisely. “More is better” does not apply for our substance. With exceeding prescribed ratios the effect will be reduced or completely lost!
- Spray as high as possible so you cover bigger volume of air with the odor.
- You can spray with automatic spraying systems or manually (see pictures below).
- When spraying odor molecules will be encapsulated with water and odor will be reduced or completely removed within 10-15 minutes.
- When solution falls on the waste it will start bio waste degradation process. Dependent of percentage of bio-degradable waste, you can reduce (degrade) up to 20% of waste volume within 7 days and up to 40% in 14 days. To achieve considerable results on waste biodegradation, the quantity of solution per cubic meter of waste need to be enlarged as advised.



Dosing and Effects on Depots

Product: Greenacle Odorless concentrate

Solution ratio: 500:1 (500 units of water : 1 unit of concentrate)

50 l of water : 100 ml of concentrate

5 l of water : 10 ml of concentrate

Quantity per surface: spray 4l of solution per 1 m² surface.

Effective depth: up to 2 m deep.

Effect:

- Reducing or completely eliminating odor within 10-15 minutes.
- Biomass degradation up to 20% in 7 days and up to 40% in 14 days (depends of bio degradable waste mass percentage)



Dosing and Effects – Containers and Waste Beens

Product: Greenacle Remediator concentrate

Solution ratio: 500:1 (500 units of water : 1 unit of concentrate)

50 l of water : 100 ml of concentrate

5 l of water : 10 ml of concentrate

Quantity per surface: Spray in the manner that the containers “get wet” (no need to “flow”, simply wet is enough), approximately 1 -2 dl per m² of surface.

Effect:

- Reducing or completely eliminating odor within 10-15 min.
- Containers will remain odorless until new waste is placed into the containers.
- Grease and dirt will catch less on the container surface.



Dosing and Effects –Vehicles Washing

Product : Greenacle Odorless concentrate

Solution ratio: 200:1 (200 units of water : 1 unit of concentrate)

20 l of water : 100 ml of concentrate

2 l of water : 10 ml of concentrate

Quantity per surface: Spray in the manner that the containers “get wet” (no need to “flow”, simply wet is enough), approximately 1 -2 dl per m² surface. Wash the vehicle after 30 minutes with “vap” (water under pressure).

Effects:

- Reducing or completely eliminating odor within 10-15 min.
- Containers will remain odorless until new waste is placed into the vehicles.
- Grease and dirt will catch less on the vehicle surface.
- Degradation process will continue in the waste water that flows into the canalization and water will become “biologically sound”.

