

# ***Bio.CompoZ***

*for composting and odour control*

*An innovative way to transform organic waste to  
compost without disturbing mother nature*



**Bio.SoilZ**  
- An Agricultural Company

The Green  
Technology  
from

 Germany





# ***Bio.CompoZ***

*Transforming organic waste through  
conditioning of microorganisms*



# **Bio.CompoZ**

*for Composting & Odour control*

**Bio.CompoZ** is a colourless, odourless liquid which, through the activation of aerobic micro-organisms, leads to a faster transformation of organic waste (from animal production, plant production or municipal waste, including municipal food waste) into humus. These aerobic microorganisms decompose the very stable lignin layer so that the main components, which consist of much more easily decomposable organic compounds, can now be converted (metabolised) very quickly.

In addition to large variety of aerobic bacteria, yeasts, fungi and enzymes are also involved in the decomposition of the stable lignin layer. The decisive factor in this whole transformation process is that **Bio.CompoZ** activates those microorganisms that not only work and exist under the influence of oxygen, but even produce oxygen in their metabolic process.

As a result of this process only aerobic material is left over which leads to fundamental change in the milieu; namely from anaerobic (oxygen consumption, putrefaction, disease, toxins, odour, stench, toxic excrements, acids, polluted sewage) to aerobic conditions characterised by oxygen production in which new life is produced, characterised by the pleasant, earthy smell of forest soil.

When **Bio.CompoZ** is brought into a bad-smelling or even extremely stinky, environment, it effectively transforms it and efficiently reduce the bad odours, or eliminate them altogether; be it in large kitchens, slaughterhouses, waste facilities, stables, or other industrial processing facilities of organic material. Landfills in large cities, which often have a penetrating smell, especially in summer, can also be defused very efficiently with this process.

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## **Benefits:**

- *Faster implementation*
- *Promotes growth of beneficial microorganisms*
- *Significant odour reduction*
- *Reduction in heavy metal pollution (Mercury-Hg, Cadmium-Cd, Arsenic -As, Lead-Pb, Chromium-Cr.*
- *Adjusts pH value*
- *Up to 90% reduction of Greenhouse gases like Methane (CH<sub>4</sub>), Carbon dioxide (CO<sub>2</sub>) and Nitrous oxide (N<sub>2</sub>O)*
- *Better availability of organic nutrients for soil life (Edaphon)*
- *Complete utilisation as biofertiliser*
- *Sharp reduction in pesticides, herbicides, fungicides,*
- *Healthier soils*
- *Healthier plants*
- *Higher yields*

## **Usage :**

*To be used on huge piles of municipal waste, slaughterhouse waste, animal waste, food left overs, leaves, wood residues, agriculture waste etc.*

*1 litre of our ready-to-use solution of Bio.CompoZ is suitable for 50 m<sup>3</sup> of organic waste.*

*In order to achieve an efficient effect, it is recommended that the biomass is sprayed spread over a large area before it is placed in heaps and turned over after two weeks and sprayed once again with Bio.CompoZ in recommended dosage.*



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## From Anerobic to Aerobic Microbial Transformation

**Anerobic**

**Bio.compoZ**

**Aerobic**

**Without oxygen:**  
living, active, or occurring in the absence of oxygen

**Hostile to life:**  
pungent, biting ammonia smell

**Are involved:**  
Oxygen fleeing bacteria / Anerobes, pests, insects

**Leads the formation of:**  
Ammonia, methane / hydrogen sulphide and nitrogen losses due to ammonia formation

**The result:**  
Raw-Humus, Insect-Humus

**The formation of:**  
Toxins (toxic substances, e.g. botulism), ammonia, virus infestation, pest infestation, this triggers diseases and endangers plants and animals

**Groundwater / Emissions:**  
Danger because harmful substances in dissolved form

**With oxygen:**  
living, active, or occurring only in the presence of oxygen

**Life-enhancing:**  
low odour – to odourless

**Are involved:**  
Oxygen loving bacteria / Aerobics, yeasts, mushrooms, earthworms

**Leads to the formation of:**  
Nitrogen in bacteria or mushroom protein as permanently flowing source of nutrients

**The result:**  
Real humus, permanent humus, earthworm humus

**The formation of:**  
Trace elements, such as zinc, copper, magnesium, vitamins, enzymes and natural antibiotics – viruses are destroyed, pests have no habitat

**Groundwater / Emissions:**  
no dangers because nutrients in bound form



*...healthy air  
...healthy soil  
...healthy people*



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