



Micronz Incorporation is an Environment Company with a strong focus in delivering sustainable products and solutions to cater segments like Agriculture, Animal Husbandry, Aquaculture, Waste Water Treatment, Household Care and Solid waste management.

We research, develop and manufacture innovative products with the end goal targeting environmental sustainability worldwide, which helps to improve the health of living creatures along with the health of our planet.

“Our technology based on the principle of natural & biological phenomenal along with cutting edge microbial techniques to sustain environment and humanity in a positive manner”

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ALSO TRY



agriCURE+

An improved plant growth promoter with soil conditioning & pest repellent features consists of various naturally occurring microbes with a combination selective herbal extracts.



aniCARE+

An improved probiotic feed additive for Animals and Birds, it also acts as an Ensilaging agent that helps restore the natural microbial balance in the digestive system, enabling maximum extraction of nutrients from the fodder.



aquaPRO+

A microbial formulation that acts as probiotic feed supplement for aquatic population such as fish, prawns, molluscs etc while improving the health & balances the complete Pond and Lake Ecosystem.



bioCLEAN

A bioaugmentation and bioremediation agent to treat waste water from ETP's, STP's, Lakes, Drains, Ponds etc naturally while reducing the cost of treatment.



master CLEAN

A complete organic multipurpose cleaner which is a mixture of various herbal extracts, plant juices, fermented end product to remove dirt, stains, oil, grease etc. also acts as a disinfected agent.



freshSTART

A liquid concentrate with a fast action foul odor controlling or suppressing property.



soil BOOST

AN ADVANCED ORGANIC COMPOSTING AGENT



- FASTER COMPOSTING
- PRODUCTION OF ENRICHED COMPOST
- FOUL ODOUR SUPPRESSION
- CONTROL OF VECTORS
- EFFICIENT TREATMENT OF LEACHATE

Your Local Micronz Distributor

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MICRONZ

soilBOOST

AN ADVANCED ORGANIC COMPOSTING AGENT

Micronz-Soil Boost is the most advanced microbial product created with an intensive research & development to manage all type of solid waste. It is a group of microorganisms, fungi, protozoa and actinomycetes. The product quickly carries out bio-stabilization of any organic waste at a minimal time frame. The organic waste is converted into enriched compost and production of green house gases is arrested to a large extent. The volume of waste is also reduced and there is a suppression of foul odour.

It is formulated in a technique that can be applied directly to make Compost from Agriculture/Industrial/ Municipal solid waste. Often there are various challenges such as industrial biomass, complex organic waste with high lignin content or wax coating etc, constraints of space, water, mechanization etc. Though, we have created different methods of composting to suit almost all type of biomass and situation some of them are: Windrow, Enclosed, Heap Methods etc. for making enriched composting.

phases of composting

In the process of composting, microorganisms in **soilBOOST** breaks down organic matter and produce carbon dioxide, water, heat, and humus, the relatively stable organic end product. Under optimal conditions, composting proceeds through three phases:

- 1) Mesophilic, or moderate-temperature phase, which lasts for a couple of days.
- 2) Thermophilic, or high-temperature phase, which can last to another few days
- 3) Cooling and maturation phase

Different communities of microbes present in **soilBOOST** predominate during the various composting phases. Initial decomposition starts from the very first day, which rapidly breaks down the soluble, readily degradable compounds. The heat they produce causes the compost temperature to rapidly rise. As the temperature rises above about 40°C - 55°C and above, other harmful human or plant pathogens are destroyed. Then we have to limit the rate of decomposition by the use aeration and mixing to keep the temperature below this point because temperatures over about 65°C kill many forms of microbes present in **soilBOOST**. During this phase, high temperatures accelerate the breakdown of proteins, fats, and complex carbohydrates like cellulose and hemicellulose, the major structural molecules in plants. As the supply of these high-energy compounds becomes exhausted, the compost temperature gradually decreases and further taken for the final phase of "curing" or maturation of the remaining organic matter.

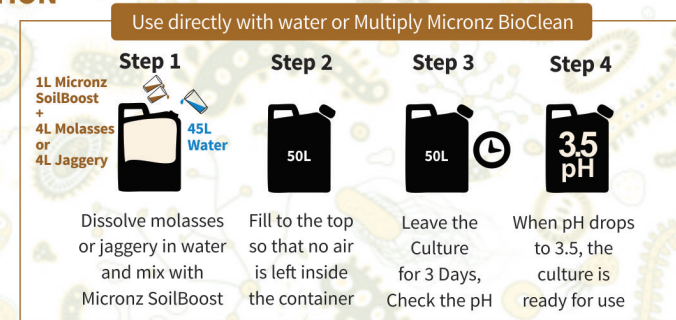
Helping Bacteria in Compost Piles

We can help bacteria in compost piles by adding the right ingredients to our compost heaps and by regularly turning our pile to increase oxygen, which supports decomposition. While compost enhancing bacteria do most of the work for us in our compost pile, we must be diligent about how we create and maintain our pile to produce the best conditions possible for them to do their jobs. A good mixture of browns and greens and proper aeration will make bacteria found in garden compost very happy and speed up the composting process

BENEFITS

- **Faster Composting:** Within 25-35 days from any organic waste - leading to saving in space & cost.
- **Production of Enriched Compost:** Creates more nutrients in the compost thereby enriching it.
- **Foul Order Suppression:** The volume of harmful gases like CO, NH₄, H₂S, & CH are suppressed, which also help in controlling foul order in the matter of few hours
- **Control of Vectors:** Population of vectors like mosquitoes & flies that spread various diseases are suppressed.
- **Efficient treatment of Leachate:** It treats the leachate emanating from solid waste, which can otherwise pollute the environment.

APPLICATION



Application procedure of **soilBOOST** (Composting Agent) is relatively simple. It is described below.

Multiplication

In order to use **soilBOOST**, the same needs to be multiplied 1: 50. This is needed so that many more microbes are created to enhance the process of composting. The multiplication process is relatively simple and is graphically described above.

Signs of Compost

It is dangerous to use compost, which is not ready for use. The crops can be harmed and it would invite all types of unwanted pests as well!! Thus, look keenly for signs of compost having matured or not as follows, signs will be different for aerobic and anaerobic compost.

Property

- Smell
- Colour
- Physical Property of biomass
- Mycelium Growth
- pH

Details

The smell is similar to what the first rain brings after a long dry.

The colour of the compost should be blackish brown.

The biomass will become brittle – it will break on touching or feeling it.

You will notice tiny white dots on an aerobic composting.

5 pH 6.5 to 7.5



WE ALSO UNDERTAKE TURNKEY PROJECTS FOR SOLID WASTE MANAGEMENT. KINDLY GET IN TOUCH WITH US TO DISCUSS YOUR REQUIREMENT

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