SANBIO
The novel approach of farming.

PRODUCT DATA SHEET

Product: **Sanbio® COMPO**

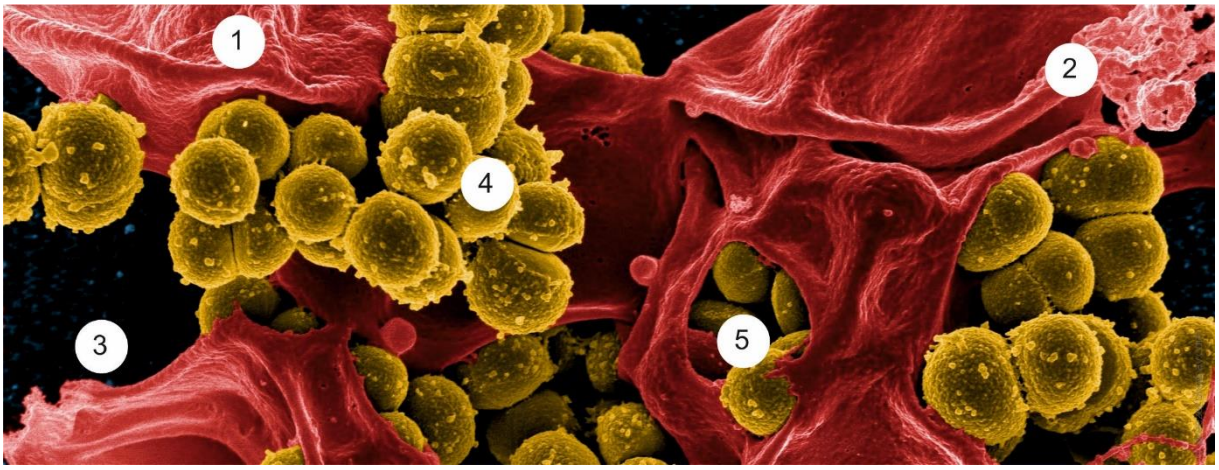
DESCRIPTION
COMPO is a natural microbiological activator and decomposer for rapid composting of organic residues and waste at private and commercial composting facilities. COMPO also can be used for soil improvement in agriculture, landscaping, parks and greens.

MAIN ADVANTAGES
The advantages of **COMPO** are:
- Optimal rotting process
- Fast decomposition
- Reduced formation of odor and smell
- Best output quality rich on nutrients and elements
- Improvement of soil fertility and nutrient content.

COMPOSITION
Activated*) biopreparation containing: Calcium carbonate, Bentonite-Montmorillonite-Illite (1m558), micronized to particle size of <=100micron, consortium **) of high concentrated living microorganisms isolated from natural environment, species: Mycorrhiza (M. spp, M. Glomus intraradices), Bacillus (B. subtilis, B. lichenformis, B.megaterium, B. amyloliquefaciens), Pseudomonas (P. trivialis), Trichoderma (T. harzianum T58); concentration 2.3 Billion CFU/g, starter food source (nutrients, trace elements, amino acids, vitamins)
*) processed by SANBIO Biocatalytic Stimulation Technology
**) see legal statement

MODE OF ACTION
COMPO combines the core functions in one product:
1. KICK-START by inoculation of microbiom and nutrients
2. CONTROL of rotting process
3. ACCELERATION of process.

The effectiveness of the activator COMPO in powder form is based on the synergistic combination of mineral mix and microbial biopreparation and their activation by the SANBIO Biocatalytical Stimulation Technology. The mechanism of electrical stimulation makes the difference of COMPO versus conventional products acting on chemical mechanisms only.



1 Micronized particles provide an extremely large reaction surface
2 Huge reactivity towards compounds due to charged and polarized physico-chemico complex
3 Fast reproduction and growth of aerobic microbes due to on-board oxygenation and starter food source
4 Fast colonialization of microorganisms at host matrix used as microhabitate
5 Rapid decomposition of organics due to effective high concentrated bacteria and fungi

RAPID ACTION. The unique composition and advanced processing of COMPO ensure instant impact on pile.

ADVANCED PROCESSING. The minerals are utilized in a special milling and grinding process down to less than 100 micron size. As a result, the micronized very tiny particles have an extremly large reaction surface (host matrix). Subsequently, the particles and microorganisms being charged and polarized in a special electrical process. Now, the refined physico-chemico complex has a huge capability to interact with compounds, and the microrganisms have a higher activity and metabolism.

EFFECTIVE MICROBIOTA. The mineral complex provides the microhabitat (host matrix) for colonialization, carbonates for oxygenation and balance the pH value in the pile. COMPO contains mesophilic and thermophilic bacterial cultures and fungi which work under both, aerobic and facultative anoxic condition. This guarantees the best process performance under all conditions. The optimized conditions promotes the fast reproduction and growth of aerobic microbes. The accelerated metabolism leads to rapid heating upto the maximum temperature shortly after initial inoculation.

DYNAMIC AND STABLE BIO-FERMENTATION. COMPO is specialized in effective decomposition and transformation of Cellulose - the main component of crop residues - and inhibitors as Lignin, Polyphenols, Polysaccharides, etc. The process works fast, stable and safe with low odor and smell emissions.

SOIL IMPROVEMENT. Application of COMPO on fields and land increases the content of nutrients available for plants and humus in soil. Additionally, microorganisms can solubilise insoluble forms of phosphorus and nitrogen. Therefore, plants can more efficiently use it provided by application of standard soil fertilizers.

DIRECTIONS OF USE

Place of use	Application	Dosage	Supplementary information
Compost plant	Initial: build-up of piles	50g/cbm of raw material	Prepare the organic bulk raw substrate according best practice (composition, ratio mixing, C:N:P ratio, particle size, porosity, moisture). <u>Built-up the pile:</u> Stackthe bulk raw material in layers of 20cm thickness each. Spray the working solution uniformly over the each layer. Use 10L of working solution for 10-15m2. Spray the solution on each layer generously.  <u>Use of turning machine</u>: Spray the working solution direct into working area of machine.
	Maintenance: each compost turning	20g/cbm of raw material	
Soil	Crop residues (chopped straw, stubble), after the harvest of all species of crops.	2–4 kg/ha dilluted in 300–400 L water (=working solution)	Medium-droplet spraying is recommended. Before application, it is advisable to crush crop residues. After spraying, mix topsoil with the formulation and crop residues. At the time of spraying avoid excessive sunlight – it is best to perform the treatment in the evening.

OPTIMAL WORKING SOLUTION: suitable for **1 cbm** of raw material: Fill tank with 2 Liters of lukewarm water. Add 50g of COMPO. Agitate well. Wait 15min for maturing. The working solution should be applied promptly. Maintain agitation throughout the fertigation process.

Bacteria in COMPO preparation are in a spore form. Therefore, the product retains its beneficial properties over a period of at least 3 years.

PACKAGE
5/25kg bucket

SHELF TIME
3 years in unopened packages. Opened packages should be stored tightly closed.

STORAGE
Store cool and dry. Temperature range +5...40°C. Protect from sunlight and frost.

SAFETY
Read SDS carefully.
Keep out of reach of children.
Wear protection gloves and eye protection.
Avoid breathing dust/mist/spray.
Wash with water thoroughly after handling.

APPROVALS

Organic certified

The product meets following regulations:

Country	Standard	Link
Germany	Demeter Germany Demeter International FiBL Inputs list for the organic agriculture in Germany Gäa Germany Naturland Germany Reg. (EC) 834/2007	→ http://www.betriebsmittelliste.de/de/bml-suche.html (enter company name)
EC	EC 834/2007, EC 889/2008	→ www.inputs.bio (enter company name)
USA	American Regulation NOP (National Organic Program)	→ www.inputs.bio (enter company name)

COUNTRY OF ORIGIN
Federal Republic of Germany

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OTHER INFORMATION
Certain statements may not be applicable in all geographical regions. Product associated claims may differ based on government requirements. Product availability may vary by country. Please contact SANBOS for further information.
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The data given above is based on our continuous quality monitoring system. They do not exempt the user from his obligation to make an incoming inspection of the delivered product. The data are for information purposes and do not constitute any guarantee. It is the responsibility of the user to determine the product's suitability for his intended use.

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