



MBL BIOGAS CH4

Bacterial additive for starting
and managing anaerobic digester

DESCRIPTION

MBL BIOGAS CH4 is a biological formulation in powder, which combines a blend of specifically selected bacterial strains, fast-acting enzymes, biological nutrients and stimulants. **MBL BIOGAS CH4** is applied in anaerobic digestion plants for livestock sewage, waste from the MSW organic fraction, sludge obtained from the flotation of compostable organic waste, grass clippings.

The **MBL BIOGAS CH4** formulation favors the increase of methane-producing microorganisms already present in the plant, as it shatters the slurry molecules, making them immediately available to them. This significantly increases the performance of the anaerobic digestion systems, increasing their biogas yield, reducing the volumes of sludge sent to landfills and energy costs.

ADVANTAGES

- The plant's biogas production increases
- It reduces sludge and, consequently, reduces its handling and disposal costs
- Generates lower energy needs for aerobic treatment
- Eliminates odors and polluting emissions
- It allows quick start-ups and an immediate response in the event of system disruptions
- Maintain the purity of the biogas produced
- Improves the biodegradation of COD
- It improves the efficiency of the plant, reducing operating costs
- Recommended for organic farming

APPLICATION

MBL BIOGAS CH4 is used in a variety of food and non-food industries, which use anaerobic systems to treat their waste. Furthermore, it is used in biogas production plants deriving from the collection of urban organic waste, from sewage sludge, from agro-industry residues, from manure produced by intensive farming, ecc.

PREPARATION

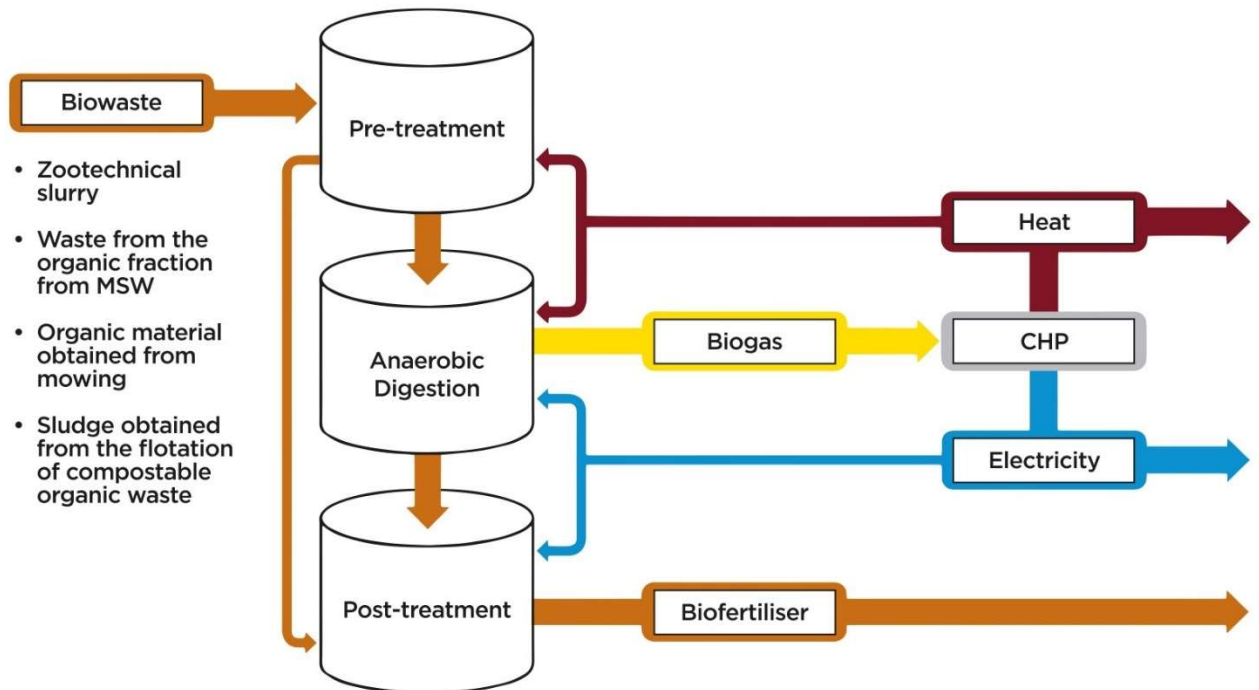
MBL BIOGAS CH4 must be added daily directly to the incoming waste stream, just before entering the anaerobic treatment unit or lagoon.

- Insemination:** dose directly into the digester feed screw on the first day from 50 to 100 g for each ton of wastewater to be treated contained in the reactor
- Starting:** dose 15-35 gr for each ton of wastewater to be treated entering the reactor directly into the digester feed screw for the next 6-10 days
- Keeping:** dose daily, directly into the digester feed screw, 1-2 gr for each ton of wastewater to be treated entering the reactor



PROPERTIES

- **Physical aspect:** granular powder of light brown color
- **Stability:** maximum loss of 1 log per year
- **pH range:** 7.0 - 7.5
- **Product Density:** 0.5 – 0.61 g/cm³
- **Moisture Content:** Below 15%
- **Nutrient Content:** Biological nutrients and stimulants
- **Bacterial concentration:** (C.f.u.*) 5 x 10⁹ per gram * colony-forming units



CONDITION FOR USE

Bacteria in **MBL BIOGAS CH4** are activated in a pH range between 6.0 and 9.0, with an optimal activity close to a pH of 7.0.

The temperature at which the microorganisms are active, is between 10°C and 70°C (50°F and 158°F).

The temperature in which microorganisms have optimal activity, is from 25°C to 65°C (77°F and 149°F).

PACKAGING

18 kilo plastic pails

STORAGE AND HANDLING

Store in a cool dry place at room temperature. The recommended storage temperature is 1°C to 25°C (34°F to 77°F).

Shelf-life: 24 months

Kemper S.r.l.

Via Ponterosso, ncm
25020 DELLO (BS) Italy
P.I.: 02107240984
Tel.: +39 030 9771066
Fax: +39 030 9771067
www.microbiolife.com
info@microbiolife.com



Cod. K0099956 – Rev. 03 of 2023

NOTICE TO USERS

The data shown in this technical data sheet have been prepared to the best of our knowledge and describe the indicative average characteristics of the product. This information does not constitute a sales specification. Product intended for professional use only. For information on transport and handling, see the safety datasheet.