

# Bacterius®



## BENEFITS

A synergistic blend of selectively adapted bacteria which produce rapid degradation of problematic compounds found in Industrial and Municipal waste systems

Recommended for a broad range of municipal applications in both treatment plants and collection systems

Degrades the recalcitrant portion of the grease molecule, the long-chain fatty acids, which cause the majority of maintenance and treatment problems.

Effective at temperatures up to 45°C (113°F).

Reduces the production of odours by inhibiting biological production of odour-causing compounds, such as hydrogen sulphide and volatile fatty acids that result from septic or anaerobic environments.

Active at low pH levels. The addition of **Bacterius® PRO-WW** alleviates low pH problems by breaking down the fatty acids.

Handles high loadings without detriment to effluent quality.

## FEATURES

Tan/yellow coloured, free flowing granular powder

45 x 250g water-soluble pouches / 11.25kg box

**Stability:** maximum loss of 1 log a year

**Product pH:** 6.8 - 8.5

**Product density:** 0.5 - 0.61 g/cm<sup>3</sup>

**Moisture content:** Below 15%

**Nutrient content:**

Biological nutrients and stimulants

**Bacterial concentration:** 5 x 10<sup>9</sup> per gram

## FORMATS

45 x 250g water-soluble pouches / 11.25kg box



250g

# PRO-WW

*Microbial consortium degrades and digests grease, fatty acids, proteins, lipids and carbohydrates, removing the source of organic waste problems.*

**Bacterius® PRO-WW** contains a specially formulated range of adapted high-performance microorganisms optimised for their ability to degrade a wide variety of contaminants found in Industrial and Municipal treatment plants.

This efficient product helps to increase a plant's capacity to handle grease, chemicals, and a variety of pollutants, through an efficient biomass support system.

**Bacterius® PRO-WW** works to minimise stress related problems and optimises a plant's ability to handle the excess overload.

## CONDITION OF USE

**Bacterius® PRO-WW** can be used for multiple applications, including daily dosing to maintain FOG degradation capabilities, increased dosing during upsets caused by high loading and flows and seeding during plant start-ups.

The bacteria in **Bacterius® PRO-WW** perform within a pH range of between 4.5 and 8.5, with optimum activity near a pH of 7.0. Temperature affects the growth rate of the bacterial population and activity improves with a temperature of between 37°C and 38°C (99°F to 100°F). Expect no significant activity below 5°C (40°F) and above 45°C (113°F).

The dosage rate for **Bacterius® PRO-WW** is dependent upon the type of waste water, average daily waste water flow, the volume of the biological reactor and the COD load. An increased dosage during the initial seeding is used to establish the microorganisms in the system quickly. Once the microbial community is properly set, a regular maintenance program can then be put in place to maintain a high level of biological activity.

## BIOLOGICAL MANAGEMENT OF INDUSTRIAL AND MUNICIPAL WASTE WATER



## DOSAGE

Example of a typical basic dosage per surface acre:

1<sup>st</sup> week: Initial Shock treatment - 25kg spread over 5 days

2<sup>nd</sup> week: 12.5 kg spread over 5 days

3<sup>rd</sup> week: 6.25 kg spread over 5 days

Maintenance: 1-2 kg per week.

## PREPARATION

**Bacterius® PRO-WW** may be added directly to the waste influent stream or aerated basin. For toxic wastes or short retention times, rehydration for between 30 to 90 minutes before its addition to a waste system is recommended, using 9 litres of water per 500g of **Bacterius® PRO-WW**. For best results, the water temperature range should be between 21°C and 31°C (70°F to 90°F).

## STORAGE

Keep away from freezing.

Store in a cool, dry place at room temperature.

The recommended storage temperature is within a range of 1°C and 23°C (34°F to 73°F).

## NOTE

Product not WHMIS Vertu Controlled. NOT REGULATED, NON-HAZARDOUS.

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