

YDRO PROCESS® 2

Technical Data Sheet

Fruit and vegetable wastewater

Description

The YDRO PROCESS® 2 is a product containing a specially formulated range of microorganisms capable of treating the fruit and vegetable industry wastewater. The high performance anaerobic, facultative and aerobic microorganisms in conjunction with the contained minerals, micronutrients, vitamins and amino acids create ideal conditions for the optimisation of the treatment plants treating this type of wastewater. It increases and sustains the bacterial activity in a variety of operational conditions. It breaks down and decomposes carbohydrates, sugars, sweetening syrups and chemicals used in the production. It withstands acidic environments and overcomes the microbial activity inhibitors contained in wastewater of some fruit and vegetable processes.

Applications

Fruit and vegetable processing facilities

Canaries

Frozen or dehydrated fruit and vegetable industries

Anaerobic digesters with fruit and vegetable residues

Storage, Handling and Disposal

Please store product at room temperature, with low humidity and away from direct sunlight. Storing in high temperature or high humidity for extended periods will harm the product and affect its efficiency significantly.

Do not use on food surfaces, do not inhale possible dust, wash hands thoroughly after handling.

Dispose container according to local regulations.

Directions for use

This product must be applied after maturing for at least 12 hours, preferably in non-chlorinated water. The maturation process, the exact dosing points and the exact daily dosage are decided according to the wastewater characteristics, the available treatment facility and the effluent target parameters. The initial dosage is usually increased. Several days may be required in order to achieve complete success. Nutrient supplement might be required.

Physical properties

| | |
|--------------------------|--------------------------------|
| Colour | light brown |
| Appearance | powder |
| Odour | yeast-like |
| Relative density | 0.60 – 0.65 gr/cm ³ |
| Bacterial cultures | <1 wt% |
| pH range | 6.0 – 9.0 |
| Temperature range | 5°C – 60°C |
| Carrier content | >99 wt% |
| Solubility | soluble in water |
| Degradability | biodegradable |
| Shelf-life | 3 months |

Key Benefits – Results

- Reduces the production of excess sludge
- Increases the degradation of organic content
- Eliminates odours and foaming
- Degrades cellulose and lignocellulose
- Degrades fruit sugars with high efficiency
- Improves and decolourises plant effluent
- Withstands high shock loads
- Enhances overall biological operations
- Degrades contained chemicals and surfactants
- Reduces the added chemicals (polymer etc.)
- Reduces overall treatment and maintenance cost
- Balances and withstands low pH shocks
- Allows treated water reuse
- Optimum performance in cold weather conditions
- It is a naturally occurring product, non-toxic, non-genetically modified and environmentally safe
- Does not harm equipment or tanks
- No modifications or investments are required
- Easy activation and application

Available packaging

Bulk: 1kg, 2kg, 5kg, 10kg, 250kg