



# YDRO PROCESS® 4

## Technical Data Sheet

### *Biodiesel wastewater*

#### Description

The YDRO PROCESS® 4 is a product containing a specially formulated range of vegetable oil degrading microorganisms capable of treating biodiesel 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 optimization of the treatment plants treating this type of wastewater. It increases and sustains the bacterial activity in a variety of operational conditions. The high potential selective bacteria break down and decompose amines and sulfates and degrade oil, soap, methanol and glycerol. Toxicity due to low water content or high alcohol concentrations might increase the microbial product dosage.

#### Applications

Biodiesel and ethanol production plants

Vegetable oil processing plants (soybean, canola, palm etc.)

Recycled restaurant grease processing plants

#### 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 daily organic load, the type and characteristics of the treated wastewater, the available treatment facility, the emulsion concentration of the treated waste and the desired targeted effluent values. 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 <sup>3</sup>
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

- Degrades oil and glycerol with high efficiency
- Breaks and decomposes emulsions
- Increases the degradation of organic content and fatty acids
- Reduces excess sludge production
- Withstands high alcohol concentration
- Withstands extreme pH conditions
- Eliminates odours and foaming
- Improves effluent quality
- Decolourises effluent
- Enhances overall biological operations
- Improves overall efficiency of current systems
- Degrades contained chemicals and surfactants
- Reduces overall treatment and maintenance cost
- Balances organic peak loads
- It is a naturally occurring product, non-toxic, non-genetically modified and environmentally safe
- Does not harm equipment or tanks
- Easy activation and application

#### Available packaging

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