

YDRO PROCESS® 11

Technical Data Sheet

Landfill leachate processing

Description

YDRO PROCESS® 11 is a product containing a specially formulated range of microorganisms capable of treating leachate from landfills. The high performance anaerobic, facultative and aerobic selected microorganisms in conjunction with the contained minerals, micronutrients, vitamins and amino acids create ideal conditions for the degradation of the polluting parameters. It degrades a wide range of pollution compounds and the high organic content. YDRO 11 is capable of reducing ammonia, phosphates, nitrates and also breaks down fats, oils and grease and eliminates the production of H₂S and odours without harming any facility or equipment.

Applications

Landfills and leachate treatment facilities

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 volume and characteristics of the leachate to be treated, the organic load and the overall polluting parameters, the available treatment facility and the effluent target parameters. The initial dosage is usually increased. The increased conductivity which is usually found in the leachate may increase the daily dosage of required microorganisms. Several days may be required in order to achieve complete success. Nutrient supplement might be required. It is strongly recommended to dose the landfill cells in combination with the treatment facility.

Physical properties

Colour	light brown
Appearance	powder
Odour	yeast-like
Relative density	0.65 – 0.75 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
- Liquefies fats, oils and grease (F.O.G.)
- Prevents ground and surface water pollution
- Increases the degradation of organic content
- Reduces contaminants
- Eliminates odours and H₂S production
- Balances and withstands low pH shocks
- Decolourises effluent
- Decomposes complex organic molecules
- Enhances overall biological operations
- Improves the treatment plant effluent
- Maintains optimum performance at lower temperature conditions and in high conductivity
- Reduces the added chemicals (polymer etc.)
- Reduces leachate treatment cost
- Stabilizes organic load inconsistency
- 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