

Liquid + Information Sheet

Product name

SEWAGE LIQUID+

Biological effluent treatment — large-scale wastewater applications

Product Classification

Liquid Plus is a **biological effluent treatment preparation** comprising a **buffered liquid medium with active bacterial cultures**, formulated as an **industrial wastewater treatment bio-augmentation additive**. It contains **non-pathogenic environmental bacterial isolates** derived from natural sources, classified as a **non-GMO micro-organism culture blend** and confirmed **non-carcinogenic, non-mutagenic bacterial preparation**. This product is a **prepared culture media containing non-pathogenic bacterial isolates** for industrial application, supplying **organic solids reduction bio-culture** activity to enhance the performance of effluent treatment systems at scale.

Description

A biodegradable and biologically active product used for the bio-augmentation of wastewater treatment systems and for environmental bioremediation. The super concentrate versions are also used as biological ingredients in various cleaning and treatment products by re-formulators. The products improve waste treatment efficiency and operational robustness of the treatment processes.

Pack Size

25 L drum (RFU LIQUID)

Also available: 500g tub (SEWAGE POWDER) • 1kg × 25 bags boxed (SEWAGE POWDER)



Bacterial Consortium

- ◆ *Bacillus cereus* strain B006
- ◆ *Bacillus cereus* strain D005
- ◆ *Bacillus subtilis* strain D014



Safety

- ✓ Non-hazardous
- ✓ Non-carcinogenic, non-mutagenic bacterial preparation
- ✓ Non-GMO micro-organism culture blend
- ✓ Contains non-pathogenic environmental bacterial isolates

Key Features

- ✓ Ingredients Readily Biodegradable (OECD 301)
- ✓ Biologically active — contains active natural bacteria
- ✓ No animal ingredients
- ✓ Compatible with and enhances water treatment and water re-use systems
- ✓ Packaging minimised, re-useable and recyclable
- ✓ Reduces malodours through biological digestion of organic waste

Designed to produce enzymes on demand

Active natural bacteria incorporated into the product produce waste-degrading enzymes:

Proteases	✓
Lipases	✓
Cellulases	✓
Urease	✓
Amylases	✓
Xylanase	✓

Stability

The product is stable for 2 years when stored between 4 and 40°C. Due to the use of natural colorants, colour changes may occur.

Starts the waste treatment process at source

Odour control	✓
Solids breakdown	✓
Removes Phosphate	✓
Removes Nitrate	✓
Removes Nitrite	✓
Removes Ammonium	✓
Treats COD	✓

*MSDS and CoAs available on request

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Specifications: SEWAGE WORKS TREATMENT

	Blue	Brown
Colour	Blue	Brown
Appearance	Liquid	Powder
Smell	Acidic	Natural
pH (Dissolution)	4.7 ± 0.1	6.0 ± 0.5
Cell concentration	1 × 10 ⁹ CFU.ml ⁻¹	1 × 10 ⁹ CFU.ml ⁻¹

Application

The bacteria in the product break down organic solids and control odour in wastewater treatment and environmental bioremediation applications.

Odour control	✓
Solids breakdown	✓
Removes Phosphate	✓
Removes Nitrite	✓
Treats COD	✓
Removes Nitrate	✓
Removes Ammonium	✓

The powder derivatives incorporate activation nutrients which aid in growth of the bacteria under nutrient-deficient or nutrient-imbalanced conditions.

Ready to Use Applications

- ◆ The biological treatment of sewage waste.
- ◆ The biological treatment of effluents generated by industry.
- ◆ Septic tank treatment.
- ◆ Grey-water system treatment.
- ◆ Waterless and portable toilets.
- ◆ Rehabilitation and biological treatment of pit latrine systems.



Concentrated Product Applications

- ◆ Incorporation as a biological ingredient in proprietary formulations by re-formulators.
- ◆ For heavily loaded systems as a seeding or booster treatment.

Ongoing Benefits of Correct Use

- ◆ Odour control.
- ◆ Bioremediation of waste materials.
- ◆ Reduces the tendency for waste to leach into groundwater and cause contamination.
- ◆ Reduces unpleasant odour.
- ◆ Reduces biological load in treated effluent, lowering environmental and public health risk.
- ◆ Reduced environmental pollution.
- ◆ With solids liquefied and digested there is lower requirement for sludge pump-out.
- ◆ Reduced conditions that support vector breeding.

Dosage

SEWAGE POWDER (500g tub with scoop):

Add 1 scoop daily, directly into system or any convenient entry point of grey water or septic tank systems.

Add 1 scoop daily ideally mixed with 1L of water (where available) to functional pit latrine system. Refer to pit latrine treatment guideline (available on request).

SEWAGE LIQUID (RFU):

Mix contents well. Use 10L per one mega litre of wastewater per day. The product should ideally be dosed continuously by dosing system or, where not possible, manually but as frequently as feasible.

SEWAGE POWDER (dosing by weight):

For liquid wastes, add 10kg per mega litre as per procedure for SEWAGE LIQUID (RFU).

For bioremediation of solid waste add 5kg per cubic metre. Disperse evenly across waste to be treated. In some cases additives such as peat, sawdust or clay are used to improve dispersion.

Monitor and repeat dose monthly or as deemed necessary to complete the bioremediation process.

SEWAGE LIQUID AND POWDER (as formulation ingredient):

These products are included at 10% as an active biological formulation ingredient to produce a ready-to-use product. Always maintain effective dosage.

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Usage Considerations

- ◆ Control pH ~ 7.00.
- ◆ Ensure that treatment system is properly mixed.
- ◆ Ensure system has sufficient retention time for the waste load to be treated.
- ◆ Ensure sufficient oxygen supply.
- ◆ In solids applications maintain moisture around 30%.
- ◆ Do not use non-biodegradable detergents.
- ◆ Do not use anti-bacterial or biocidal products, as these will inhibit biological treatment performance.
- ◆ Do not use harsh chemicals such as strong acids or bases as these will inactivate the bacteria.
- ◆ All the ingredients for effective bioremediation are included in the product.

**MSDS and CoAs available on request*



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