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Welcome to
Adler Bio- und Wassertechnik

The purification plant in the pipe

Biological pipe cleaning with Lipolyt ® 2000

In purification plants, the decomposing of organic materials through micro organisms has been established for a long time. However, on their way to the plant, this organic waste can already cause substantial damage in the soil pipes both in the building as in the municipal sewage. The results are incrustations, frequent blockages and odour problems due to insufficient pipe ventilation, which forces to undertake expensive cleaning or even repair measures.

The alternative is to use micro organisms already in the soil and sewage pipes in order to decompose organic materials.





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The advantages of Lipolyt® 2000 for pipe cleaning

- » Lipolyt® 2000 has been developed for all pipe materials.
- » Lipolyt® 2000 prevents incrustations or decomposes existing incrustations.
- » therefore the danger of blockages is reduced considerably.
- » therefore the pipe ventilation is improved, which reduces possible odour problems.
- » Lipolyt® 2000 reduces drastically the danger of corrosion due to biogenic sulphuric acid, which is caused by organic materials
- » Lipolyt® 2000 is the alternative to expensive pipe cleaning which might damage the pipe materials





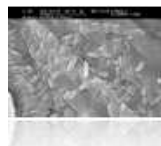
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Biological pipe cleaning with Lipolyt® 2000: The way it works

Lipolyt® 2000 for biological pipe cleaning consists of two components, which are introduced into the pipe system one after the other.

Component 1 of this biological pipe cleaning medium is a mixture of fatty acid esters, sebacic salts and free fatty acids. With its oily, viscous consistence, this component moistens the complete inside of the pipe and works itself into existing incrustations. There it serves as an adhesion base and a nutritive source for the second component.

Component 2 consists of micro organisms and enzymes, the active part of the biological pipe cleaning. The enzymes decompose fats, carbohydrates and proteins of organic materials into small fragments, which serve as an energy source for the micro organisms. The decomposition is aerobe, the by-products are nothing but carbon dioxide and water. The micro organisms reproduce very fast and displace other already existing, in part even detrimental organisms.



« Microscope image of Bacillus spores



« Colonies of Bacillus on an Agar plate





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Pipe clearing with Lipolyt® 2000: What else is to be considered

After pipe clearing with Lipolyt® 2000, other pipe clearing agents containing chloride should not be used, as these kill the micro organisms. For the toilet we recommend biological detergents, otherwise no negative effects of detergents are known. New cultures should be introduced in certain intervals to ensure permanent pipe clearing.

For humans, animals and plants Lipolyt® 2000 is absolutely unrisky. The biodegradability has been tested and confirmed as per the OECD regulation 301D.





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Pipe cleansing with Lipolyt® 2000: The application field

Lipolyt® 2000 is suitable for pipe cleansing for all waste waters with organic components, for example pipe cleansing for kitchen and toilet waste water. We recommend Lipolyt® 2000 for pipe cleansing in private houses, hospitals, residential care homes, hotels, gastronomy, public buildings and ships.

In this field of application extensively exist aerobic living conditions for the microbes we use. through this we already obtained long-term effects with clearly **exceed 10 years** .

Lipolyt® 2000 can be used both as a preventive measure in new pipelines and for pipe cleansing in older pipelines.





Lipolyt® 2000: The application method

One set of Lipolyt® 2000 consists of 1000 ml of component 1 and 1000 g of component 2. Component 1 is to be mixed with 12l of warm water and distributed to all drains or inspection openings so that a maximum of 25 m of pipeline are wetted. After that flush with 2.5 l of warm water. In case of pipelines over 25 m length, the first set is applied to the lowest drain or inspection opening in flow direction.

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Component 1 is to be mixed with 12l of warm water



Component 1 distributed to all drains

Afterwards, component 2 is to be stirred into 12l of warm water. After one hour of soaking, the mixture is distributed into the same drains or inspection openings as component 1 beforehand. Afterwards flush with 3 l of warm water.



Component 2 is to be stirred into 12l of warm water



Component 2 distributed into the same drains as component 1 beforehand





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Lipolyt® 2000: Dosage



One set, consisting of 1000ml component 1 (left hand side) and 1000g component 2 (right hand side), are sufficient for 25m of pipeline length.

