

# **DBug 10**

## **Micro-biological sanitary detergent**

**Do you recognise this problem?**

**You need to go to the bathroom, you open the toilet door and...**

**...UUUUUHHHHH...**

**...Do I really have to go to this bathroom????**

Everyone has once experienced this: you walk into a bathroom and pee with your nose pinched closed because the urine smell is unbearable. As an entrepreneur you have tried just about everything to get rid of this awful penetrating smell: air fresheners, cleaning more frequently and with detergents you know to be very aggressive, even harmful to man and environment. And after all this you still did not find a lasting effective solution. So you accepted the fact: **"Toilets stink"**

**The solution:                    Remove the cause...**

The cause of the smell is urine or urinary deposit that has been spilled. By regular cleaning and disinfection you can do much to prevent or rather contain the smell, because despite everything you still smell urine.

How come? Well simply because urine penetrates into tiles, joints, cracks etc. Ordinary detergents work very temporarily and once their activity is gone the smell returns. In other words: the development of the smell is not taken away, but suppressed for a short time.

**DBug 10:**

**DBug 10** is a biological cleaning product, that takes away the cause of the smell through the use of carefully selected micro-organisms. The micro-organisms rapidly break down urine into water and carbon dioxide.

1. You clean the complete toilet group with **DBug 10**;
2. Because urine is being changed into water and carbon dioxide, you remove the cause of the smell;
3. You keep your draining system free of urine deposit.
4. You solve the problem in an environmental friendly way.



De Jong **ECO**services  
 Mahlerstraat 17  
 2162AM Lisse  
 Netherlands  
 Tel: + 31 (0) 252418125  
 Fax: + 31 (0) 252425429  
 E-Mail: info@silverperoxide.com  
 Website: [www.silverperoxide.com](http://www.silverperoxide.com)

## Product information sheet

### Micro-biological sanitary detergent

|                    |  |
|--------------------|--|
| <b>DESCRIPTION</b> | <b>DBug 10</b> is a microbiological detergent that eliminates the cause of urine odours in toilets and toilet groups by using carefully selected micro-organisms. Urine is broken down into water and carbon dioxide.  |
| <b>FEATURES</b>    | <ul style="list-style-type: none"> <li>➤ Biologically degradable</li> <li>➤ Water soluble</li> <li>➤ Pleasant smell</li> </ul>   |
| <b>APPLICATION</b> | Use the indicated dilution of <b>DBug 10</b> in your toilets or toilet groups. Use <b>DBug 10</b> to clean the entire toilet: walls, floors, doors etc. The micro-organisms in <b>DBug 10</b> penetrates into holes, joints, cracks and other openings, where they break down urea into water and carbon dioxide. In this manner smell problems are neutralised at their source.                                 |
| <b>BENEFITS</b>    | <ul style="list-style-type: none"> <li>➤ Ease of use</li> <li>➤ Shelf life at least 2 years</li> <li>➤ Environmentally friendly</li> <li>➤ When water is flushed off, urine odour will also be eliminated in drain.</li> <li>➤ No aggressive or corrosive elements</li> </ul>  |
| <b>COLOUR</b>      | RED, BLUE, GREEN   |
| <b>PACKAGING</b>   | Carton of 12 x 1 litre<br>Carton of 4 x 5 litre  |
| <b>APPLICATION</b> | <p>Dependent on smell or contamination, use <b>DBug 10</b> in a dilution of 1:10 to 1:60. <b>DBug 10</b> has a long lasting action due to the presence of micro-organisms.</p> <p>Shake bottle or can well before using, to obtain an even distribution of the micro-organisms.</p> <p>Do not use <b>DBug 10</b> in combination with strong chlorine products or with products with a pH over 10 or under 4.</p> |
| <b>SAFETY</b>      | <ul style="list-style-type: none"> <li>➤ If ingested, consult a doctor</li> <li>➤ Keep out of reach of children</li> </ul>   |



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## **DBug 10**

Spills not only stain visible surfaces; they seep into the cracks and crevices and the microscopic pores of surfaces such as tiles, concrete, wood, and grout. Over time, surfaces can appear dull and dirty because the organics have only been partially removed. Malodours are generated by residual organics.

Many chemical products clean. Bio-products provide chemical cleaning plus the after-cleaning effects of microbial action. The micro organisms penetrate into the cracks, crevices, and pores of surfaces, the same places spills and grease collect. The microbes use the grease and organics as a food source; removing them in the process, providing a deep cleaning effect.

This residual deep cleaning is effective in many different applications:

### **FLOOR CLEANING**

Many chemical products clean floor surfaces, but they don't provide the residual cleaning effects of microbes. The micro-organisms in **DBug 10** cleaning products go to work after the initial cleaning is done. They penetrate into cracks and crevices of floor surfaces to degrade and digest spills, grease, and other accumulated material leaving floors truly cleaner. Additional benefits include removing organic soils from grout to make floors visibly cleaner and removing accumulated grease to reduce slippage. Moisture is a limiting factor and accumulated organics may not be removed in one washing. With routine cleaning, the effect is enhanced with each application until floors are truly deep cleaned. Undesirable environmental microbes may also be displaced by safer pre-selected microbes.

### **CARPET CLEANING**

Microbial technology is ideal for cleaning carpets. When food or urine is spilled on carpets, these organics seep into the carpet backing and padding and into the pores of the wooden sub-flooring or concrete under the carpet. Standard cleaning agents may be effective at cleaning the surface fibres, but cannot remove residual organics that cause stains and odours to reappear, even after cleaning. Unlike other cleaning agents, micro organisms follow organics into the pores or "micro-niches", where they destroy the organics; leaving carpets clean and odour free.

### **BATHROOM CLEANING**

Our specialised formulations cling to hard surfaces and penetrate deep into the floor, allowing microbes to degrade trapped and adsorbed organic material – the very material which cause bad toilet smells. Use for cleaning toilets, urinals, walls, floors, and fixtures in bathrooms.

### **PET CONTAINMENT AREAS**

Safe, effective bio-enzymatic cleaners remove embarrassing and bothersome pet stains and odours. Bio-products are excellent for heavy duty use in zoos or kennels or homeowner use on pet bedding, in pet cages, and on hard surface areas such as concrete, tile, or wood where pet stains and odours are a problem.



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## ODOUR TREATMENT APPLICATIONS

The same biological action that provides deep cleaning can also deliver long-term odour control. By binding, surrounding, and removing the organics that cause odours, bio-products eliminate odours and prevent their return.

Odours are perceived due to the interaction of odour molecules with olfactory receptors in the nose. Odour molecules are volatile and possess chemistry that stimulates the sense of smell. Odour “control” often involves the use of perfumes or other odour masking agents that do not eliminate odour but rather add a higher level of a less objectionable odour. Sometimes chemicals are used that actually anaesthetise the nose so it does not function.

Several chemical classes are known to be responsible for most objectionable odours found in homes and institutions. These classes include sulphides and mercaptans that smell like rotten eggs and amines that smell like old fish. Volatile fatty acids produce the odour of perspiration or rancid butter while aldehydes and ketones smell like rotting fruit.

Bio-products act to actually destroy these odour-causing compounds, not just cover them up. Some formulations provide immediate relief from odours by binding odour-causing molecules, reducing their volatility and preventing them from reaching the nose. Specially selected bacteria then degrade the odour-causing molecules, destroying them and converting them into microbial cell components, carbon dioxide, and water. Other formulations rely totally on the microbial activity to remove odours.

Unlike standard treatments, our odour control products act to remove the odour at its source, thus preventing its return. Combining immediate control and long term destruction of the sources of odours, bio-products offer more effective odour control than standard chemical treatments. No other technology works as well to eliminate persistent odours.

In addition to cleaning applications, bio-products can be used as a direct spray to control odours in applications such as bathrooms, garbage collection areas, pet cages, auto interiors, musty basements, campers, and summer homes.

With a series of specialized formulations for cleaning and odour control applications, our technical staff can recommend the best formulations for specific applications.