



# Water saving solutions from **Bio-Productions**

The truth about toilet smells, aggressive cleaning chemicals, washroom flooding, U bends and waterless systems. In a world dominated by convenience we are all looking for an easy solution well here it is!

**bio**  
productions

**T**o enable you to get the maximum water savings from urinals, without the hassle of physically cleaning and deodorising the pipe work and urinal trap regularly, Bio-Productions formulated the, "Bio Block".

**This "toss-it-in-and-forget-it" urinal block combines both chemical cleaning agents with a safe, biological activity to remove the solids (including calcium and uric crystals) that cause blockages and washroom odours.**

Simply by "tossing" a Bio Block into each urinal is sufficient to maintain clear odourless pipe work, as each time the urinal is used the client washes some of these chemical and biological cleaning agents into the system.

Additional financial benefits can be obtained by reducing the frequency of the flush, and typically around 100,000 litres of water can easily be saved by flushing between just three and five times every 24 hours.

Some systems claim to offer fully waterless but we at Bio-Productions would not advocate this as the solids in the urine settle-out and adhere to the pipes, causing blockages unless purged occasionally.

To counter this, waterless systems often suggest flushing with a cocktail of cleaning agents and water. However this usually provides insufficient liquid to purge these solids through the pipes so only the urinal trap is cleaned. Consequently the build-up in difficult to clear pipes goes unnoticed until flooding problems occur.

### **Bio Blocks contain only biodegradable materials**

These include a **special fragrance**, which does not mask odours but creates a pleasant environment for the client.

**Surfactant cleaning agents.** These enable the specially selected bacteria to quickly make contact with the soiling and solids to be degraded.

**High quantities of specially selected (and harmless) bacteria.** These colonise the urinal pipes and degrade the body-solids, calcium and urine crystals, keeping the pipes clear and free from odours.

### **Using the blocks**

Simply place (or toss) a Bio Block into each urinal. Or, place one every couple of feet in a slab (or trough) urinal.

Ideally reduce the frequency of flushing to once every 5 or 6 hours (it can be more often during the day and less frequently during the night-time if preferred).

Replace the blocks as and when they dissolve.

It is typical for some urinals to be used more frequently than others, so in these cases the blocks will dissolve more quickly. This caters for the high volume urinals and the less used urinals, delivering more biological cleaning activity where needed.

### **Complimentary washroom cleaning**

As urine is often splashed onto adjacent surfaces, Bio-Productions has created a liquid cleaner, Blu-Away, to compliment Bio Blocks. Blu-Away contains the same chemical and biological activity as Bio Blocks and may be used safely to de-contaminate these surfaces.

Simply by spraying or swabbing a dilution of Blu-Away onto the contaminated surface once or twice each week, the whole washroom can easily be maintained as a clean, odour-free and hospitable environment for the client.

Blu-Away may also be used to clean and maintain washroom fittings including urinals, toilet-bowls, showers and hand-basins.

Like Bio Blocks, Blu-Away contains bacteria that degrade calcium, enabling it to be dissolved and removed by cold-water. This takes a couple of applications but unlike some aggressive chemical cleaners, it does not damage chrome and aluminium fittings.

Blu-Away may also be used for supplementing the Bio Block activity and just by cleaning the urinal once or twice each day will accomplish this.

### **No special preparation required**

It is clear that by utilising the billions of safe bacteria within Bio Blocks and Blu-Away, washroom cleaning and water savings can be achieved.

There is no requirement to disconnect plumbing or administer a special cleaning solution to the urinals manually.

All that is required is to ensure no aggressive chemicals and disinfectants are used, which will prevent the biological activity.

Replace dissolved Bio Blocks whenever necessary.

Swab urine contaminated surfaces (walls and/or floors) once or twice each week with a solution of Blu-Away and you and your clients will enjoy water-savings - labour savings and a healthy washroom environment - *naturally!*





Using Bio-Productions Bio Blocks in ONE single urinal alone can save circa 100,000 litres of water a year. That's the equivalent to the TOTAL annual water usage of a small household... per single urinal!

 =  = 100,000 litres per annum

### A pub or small office

Five urinals = 500,000 litres SAVED per year



### A night club

Ten urinals = 1,000,000 litres SAVED per year



### An average sized hotel

30 urinals = 3,000,000 litres SAVED per year



### A sports arena

100 urinals = 10,000,000 litres SAVED per year

**4 olympic sized swimming pools!**

### Huge potential £££ savings

- An average urinal is flushed 36 times a day.
- That's a colossal 13,140 flushes a year.
- Or, in money terms, around £170 of water flushed down the (urinal) drain every year.
- Using Bio Blocks, you can reduce this flush frequency to around 4 times a day.
- That's a staggering 11,452 less flushes per annum.
- Or, in money terms, under £20 of water flushed down the (urinal) drain every year.
- Or, better still, a massive saving of around £150 per year... per urinal.
- Not dissimilar to the annual water bill for a small house.
- And Bio Blocks cost just £20 per urinal per year.
- So, you can save around £150 per year... per urinal.
- That's a lot of money in anyone's book.
- And that's before you consider the very significant environmental contribution you are making...

**Bio Blocks (not money) down your drains this year.**



**without Bio Blocks**



**with Bio Blocks**

Bio Blocks do not contain pDCB or other dangerous chemicals and are particularly suitable for use in public buildings, schools, institutions, hotels, pubs, clubs and restaurants. The pictures above show two urinal outlets after six months use - one using Bio Blocks, the other no blocks at all.



# BIO BLOCKS

## Biological Urinal Blocks



Bio Blocks have been specially formulated to reduce odour problems and blockages in urinals. New strains of bacteria have been introduced to the biological and enzymatic cleaning efficacy to remove fats, uric-scale and solids that build up in urinal traps and pipe work, causing odours and blockages. Citrus perfumed and water soluble, Bio Blocks efficiently eradicate the source of this problem, providing substantial savings on both washroom maintenance and water bills, as the need for constant flushing and more regular cleaning is reduced.

- Biodegradable
- Removes the cause of odours
- Suitable for all types of urinals and troughs including stainless steel, porcelain and ceramic
- Prevents blocked traps and pipes
- Can save on water bills
- Contains odour neutralising perfume
- Cleans and freshens
- Safer to use and not harmful under COSHH



### TECHNICAL INFORMATION

Bio Blocks contain a selection of non-pathogenic **micro-organisms** a blend of cleaning and water-softening agents, a special odour-blocking perfume & colour.

### PACKAGING

**Order Code: BB1**

Pack Size: 1 x 1.1kg tub  
approx. 50 x 22g per tub

### DIRECTIONS

Place one block in each urinal. Space every 50cm in trough urinals.

Replace when the block has dissolved for maximum efficiency.

**IDEAL TO USE WITH BLU AWAY WASHROOM CLEANER AND ODOUR NEUTRALISER**

### STORAGE

When not in use, keep closed in the original container.

Keep out of the reach of children.



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# BIO BLOCKS

## Biological Urinal Blocks



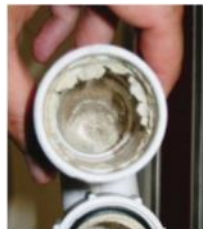
pDCB and non pDCB (para dichlorobenzene) Trial Results 2005

The photographs show the difference between using biological Bio Blocks and pDCB blocks in a washroom, in a trial conducted over a six month period. The trial site had a history of blockages caused by a build up of scale and solids in the pipes from the urinals. The blockages had caused severe flooding to the rooms below.

Before switching to Bio Blocks, the contractor charges for unblocking pipes ran into several hundred pounds. The results of the trial showed that **Bio Blocks** were able to keep the urinals clean and the pipe-work clear of any blockages providing substantial savings to the customer.



Pipework whilst using pDCB blocks



Same pipework—using Biological Blocks



### WHAT YOU MIGHT NOT KNOW ABOUT pDCB

pDCB is a crystallised gas and only offers masking smell and some insect repellent properties. pDCB provides no cleaning efficiency at all. Some people are under the impression because pDCB blocks get smaller in the urinal and that they dissolve in water. pDCB actually returns to its gaseous state whilst 'dissolving' into the air and when immersed in water it remains static.

Unfortunately and because of this, when pDCB blocks get small enough to drop through the urinal grating, they lodge in the trap and cause blockages. The various pDCB alternatives are usually made from surfactants, so they provide some cleaning efficacy.

These blocks are also water soluble, so they totally dissolve and cannot contribute to blocked pipes.

### ABOUT pDCB

From October 31st 2005 all product labelling has had to show the danger of exposure to pDCB. Any unwanted material will fall into the classification of hazardous waste, and have to be disposed of by a licensed contractor.

This re-classification of pDCB will highlight the carcinogenic risks associated with the material, especially when used in urinal blocks where inhalation in a confined space such as a washroom prevents a very real danger.



# BLU AWAY

## Biological Washroom Cleaner & Odour Neutraliser



Blu Away is a highly effective biological washroom cleaner that works by degrading organic soiling to completely eradicate stains and odours.

Use on porous washroom surfaces such as flooring materials and tile grouting and especially around urinals and toilets when soiling has been absorbed below the surface. Blu Away will remove calcium deposits and limescale on toilet bowls, sinks, showers, taps and fittings. Use to clean all washroom fittings, including stainless steel.

- pH value approx. 4.5
- Highly effective against odour
- Pleasant mint fragrance
- No harmful properties
- Formulated to spray
- Recommended for use with Bio Blocks
- Helps to prevent limescale



### DIRECTIONS

#### ODOUR PROBLEMS

spray or swab contaminated surfaces, work well into the soiling with a clean damp cloth or damp mop. Leave to work for a few minutes before wiping away any excess liquid. **Do not rinse** but allow to dry slowly. Repeat on aged problems. Spray and wipe contaminated and soiled areas regularly.

#### MOP APPLICATION

SEVERE ODOURS                      use 1:1 with water  
GENERAL MAINTENANCE       use 1:20 parts with water

#### SINK & WASTE OUTLETS

pour a little into sink and urinal outlets during quiet periods or at night.

**The use of disinfectant, bleach or caustic substances will destroy the microorganisms used in this technology.**

### PACKAGING

**Order Code: BA750**

Pack Size: 6 x 750ml

**Order Code: BA5**

Pack Size: 2 x 5 litres

### STORAGE

Stable for a minimum of 12 months if stored in the sealed original container out of direct sunlight.

Keep out of the reach of children.



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