



PRODUCT INFORMATION SHEET

Bio-Green

TOILET & BATHROOM CLEANER & SANITISER

TOTAL WASHROOM MAINTENANCE

SPECIAL FEATURES:

- ✓ Readily Bio-degradable
- ✓ Phosphate free
- ✓ Septic safe - designed to be used in conventional septics, waste water treatment plants and grey water systems
- ✓ Grey water safe - breaks down into nutrients that are safe for the garden (low sodium)
- ✓ User friendly - no poisons, no corrosives, no known allergens
- ✓ Non hazardous, non poison labelling
- ✓ Low VOC (Volatile Organic Carbon)
- ✓ Aromatic eucalyptus oil
- ✓ Cleans without fumes
- ✓ Cleans and disinfects
- ✓ Value for money
- ✓ A unique blend of surfactants, solvents and essential oils for optimum results
- ✓ **MADE IN AUSTRALIA**

CONTAINS NO PHOSPHATES, NO MINERAL ACIDS, NO ADDITIONAL PRESERVATIVES, NO POISONS OR BIOLOGICALLY "HARD" INGREDIENTS.



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DESCRIPTION:

“**BIO-GREEN TOILET AND BATHROOM CLEANER**” is a new generation cleaner and sanitiser with a unique mix of plant based acids and wetting agents boosted with natural eucalyptus oils.

Bathroom and toilet bowl cleaners traditionally rely on mineral acids like hydrochloric and phosphoric acid to remove scale, rust, soap scum, bacteria, mould and water marks from surfaces. “**BIOGREEN TOILET & BATHROOM CLEANER**” utilizes two naturally derived food acids to attack these stains, ie **CITRIC ACID** and **GLYCOLIC ACID**.

Glycolic acid occurs naturally as a trace component in sugarcane, beets, grapes and fruits. Glycolic Acid (hydroxyacetic acid) is the first member of the series of alpha-hydroxy carboxylic acids, which means it is one of the smallest organic molecules with both acid and alcohol functionality.

The high water solubility and small molecular size of Glycolic Acid allows it to penetrate deep inside dirt residues and react from within. Highly soluble in water, Glycolic Acid is also easy to rinse. It biodegrades at a rate of 89% in 7 days, is non-flammable by nature, and is the versatile liquid that is both safer to handle and easy to use. It is this unique combination of properties that make it the ideal cleaner for maintaining bathroom surfaces.

Citric acid is an organic acid found in citrus fruits. It is a natural preservative and is also used to add an acidic (sour) taste to foods and soft drinks. It also serves as an environmentally benign cleaning agent and acts as an antioxidant. Citric acid exists in a variety of fruits and vegetables, but it is most concentrated in lemons and limes, where it can comprise as much as 8% of the dry weight of the fruit.

“**BIO-GREEN TOILET AND BATHROOM CLEANER**” is the organic acid cleaner of choice for cleaning hard surfaces like ceramic tile, grout, tubs, sinks, toilet bowls, shower doors and stalls. With a low pKa and molecular weight, it makes short work of soap scum and mineral scales, removing soil thoroughly.

The product has a clinging action which enhances penetration, removing rust stains, scale deposits and stubborn stains from porcelain, brass, stainless steel and tiles.

“**BIO-GREEN TOILET AND BATHROOM CLEANER**” is a strong detergent and sanitizer that is suitable for use on most bathroom surfaces:-

- Toilets and Urinals
- Showers, Baths and Glass Screens
- Bench tops, Walls, Sinks and Taps
- Floors



BIODEGRADABILITY:

The surfactants and organic acids used in **BIOGREEN TOILET & BATHROOM CLEANER** are readily biodegradable according to Australian Standard AS 4351.

Made in Australia by an Australian owned company.

HEALTH AND SAFETY :

- **NOT classified as hazardous, according to the criteria of SAFEWORK Australia.**
- **NOT classified as hazardous, according to the criteria of GHS.**
- **NOT classified as Dangerous Goods.**
- **NOT classified as a scheduled poison.**

Risk: None allocated.

Safety: None allocated.

HAND & SKIN CARE:

After washing, rinse and dry hands thoroughly. People with sensitive skin should avoid prolonged contact with the washing solutions or should wear protective gloves.

FIRST AID:

If poisoning occurs, contact a doctor or Poisons Information Centre (phone 131126).

For more information, the SDS (Safety Data Sheet) is available for this product.

PHYSICAL AND CHEMICAL PROPERTIES :

SPECIFICATION	TYPICAL VALUES
APPEARANCE	Transparent aqua liquid
ODOUR	eucalyptus
ACIDITY	Mild
pH	2.0 neat
FOAM HEIGHT	low – medium
SODIUM (Na)	0% w/w
PHOSPHATES	None present
BIO-DEGRADABILITY	Readily biodegradable
SURFACTANT TYPE	Nonionic
SOLUBILITY	Complete in water

GREY WATER USE:

Grey water regulations vary from state to state and it's important to be aware of local state and council rules. Grey water is household waste-water from the bathroom, hand basin, shower, and laundry.

The components of cleaning products most likely to cause problems are phosphorus, salinity, sodium, and pH.



P – Phosphorus: Small amounts of phosphorus can be useful for plants, and it's a major component of fertiliser. When it gets into waterways, however, it can cause excessive algal growth, leading to toxic algal blooms. The effect on your soil is varied depending on your soil type. Clay soils can deal with more phosphorus because the phosphorus binds to clay minerals and doesn't leach away. On sandy soils, excess phosphorus can leach into groundwater. Australian soils are typically low in phosphorus, and some native species can't tolerate high levels.

Salinity: All laundry detergents contain salts, typically sodium salts such as sodium nitrate, sodium sulphate, sodium phosphate and sodium silicate. Laundry detergents are generally highly saline, and frequent long-term use would likely harm your garden, unless it was spread over a large area.

Na- Sodium: Sodium in the salts is particularly detrimental not only to plants, but soils. It affects the soil's permeability and causes a loss of structural stability.

pH : Laundry detergents are generally highly alkaline (that is, have a high pH): a pH higher than 10 helps dissolve organic dirt, such as grease, oils and food scraps. Strong mineral acids like conventional toilet bowl cleaners cause very low pH. Most biological systems prefer a pH between 6 and 9, and grey water with a high pH or low pH is likely to harm many plants and soil organisms.

“BIO-GREEN TOILET AND BATHROOM CLEANER” has been designed to be 'grey water safe' – it breaks down into nutrients that are safe for the garden. It contains - 0% sodium, is free of phosphate, and has a mildly acidic pH (2.0) that is easily increased with water dilution.

