PRODUCT INFORMATION SHEET

# Bio-Green

# LIQUID HAND SOAP

## ANTI-BACTERIAL

### SPECIAL FEATURES:

- Readily Bio-degradable
- Natural anti-bacterial agent that is plant derived and eco friendly (unless you are a bacteria or mould)
- Soft on hands - improves mildness to skin
- Safe for kids
- Nut free (free of peanuts and tree nuts)
- No sulfates (SLES, SLS)
- Paraben free, DEA free
- Eliminates odours
- 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 (<0.5% Sodium)
- User friendly - no poisons, no corrosives, no known allergens
- Low VOC (Volatile Organic Carbon)
- Plant derived essential oils: Eucalyptus and Lavender
- Value for money
- A unique blend of surfactants and foaming agents for optimal results

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




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## DESCRIPTION:

**"BIOGREEN LIQUID HAND SOAP"** is manufactured using gentle cosmetic and plant based wetting agents and moisturisers. Alkyl polyglucosides are wetting agents made by reacting glucose or corn starch with a fatty alcohol – super mild and readily biodegradable surfactants made from renewable resources.

Also incorporated is the well-known active ingredient - **LACTIC ACID** - "which helps eliminate unwanted bacteria from the skin". The plant acid (lactic acid) is natures' anti-bacterial agent – lactic acid is found in foods, plants, animals and the human body. Lactates play an important role in cellular and body metabolism and are classified as non-toxic (reports available for algae, fish, rats) and readily biodegradable. Lactates are FIFRA approved by the Environmental Protection Agency, and notified at European Biocide Directive, BDP (98/8/EC) for PT 2,3,4 & 6.

**"BIOGREEN LIQUID HAND SOAP"** is made from ingredients that have been verified as free of peanuts and tree nuts – great for the individuals who have allergies to nuts.

**"BIOGREEN LIQUID HAND SOAP"** is pH balanced – your skin has a natural, slightly acidic moisture layer which inhibits the growth of harmful bacteria. Typical alkaline soap products destroy this layer, leaving skin feeling dry.

**"BIOGREEN LIQUID HAND SOAP"** is ideally suited to cleaning hands in food preparation operations, restaurants, farms, garden nurseries, child care centres, bathroom amenities, and great for use around the home.

Prepared from select ingredients that have been carefully chosen to maximize both ecological and operator safety.

## DIRECTIONS:

Wet hands and apply one pump of **"BIOGREEN LIQUID HAND SOAP"** and lather well for 60 seconds. Rinse hands well with clean water and dry with fresh paper towels or air dryer. Can also be used as an all over body wash.

## DIRECTIONS:

Wet hands and apply one pump of **"BIOGREEN LIQUID HAND SOAP"** and lather well for 60 seconds. Rinse hands well with clean water and dry with fresh paper towels or air dryer.

## INGREDIENTS:

*Water, alkyl polyglucoside wetting agents, foaming agent, thickener, lactic acid, essential lime oil, food dyes.*

## BIODEGRADABILITY:

The surfactants used in "**BIOGREEN LIQUID HAND SOAP"** 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.

**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 | Citrus lime |
| ACIDITY | Mild |
| pH | 6.0 neat |
| FOAM HEIGHT | low – medium |
| SODIUM (Na) | < 0.6% 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 carbonate, 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.

**BIOGREEN LIQUID HAND SOAP** has been designed to be 'grey water safe' – it breaks down into nutrients that are safe for the garden. It contains less than 0.6% sodium, is free of phosphate, and has a neutral pH (6.0).