



CUSTOM CHEMICALS INTERNATIONAL PTY LTD  
103-107 Potassium Street  
Narangba 4504  
Queensland , Australia  
**Telephone Number:** +617 3204 8300  
**Facsimile:** +617 3204 8311

## PRODUCT INFORMATION SHEET



# **BIO-GREEN SOLAR PANEL CLEANER**

## **CONCENTRATE**

### SPECIAL FEATURES

- Restores photovoltaic efficiency to solar cells
- User friendly – no poisons, no corrosives, no known allergens
- Low VOC (Volatile Organic Carbon)
- Easily removes tough stains, leaving no residues.
- No need to rinse
- Quick and convenient
- neutral pH - no corrosives, kind to skin
- Not hazardous to Safe Work Australia
- contains no toxic chemicals
- No phosphates, no ammonia, no chlorine
- Will not harm glass panels, plastics or metals
- Food safe – safe if product residues enter rain water tanks
- Grey water safe - breaks down into nutrients that are safe for the garden ( 0% Sodium)
- Readily Bio-degradable
- Concentrated formula – 1L makes 10L of 'ready to use' solution.

**CONTAINS NO PHOSPHATES, NO POISONS, NO PRESERVATIVE OR BIOLOGICALLY 'HARD' INGREDIENTS.**

### DESCRIPTION:

**BIOGREEN SOLAR PANEL CLEANER** has been formulated for the safe and effective cleaning of photovoltaic solar cells. The residues and contaminants that build up on solar cells (mould, fall-out, smog, droppings, etc) cause significant drop in the photovoltaic efficiencies of solar cells . up to 15-25% loss.

AQIS approved %General Cleaner Type A+. cleaning product safe for contact with foods and food surfaces.



CUSTOM CHEMICALS INTERNATIONAL PTY LTD  
103-107 Potassium Street  
Narangba 4504  
Queensland , Australia  
**Telephone Number:** +617 3204 8300  
**Facsimile:** +617 3204 8311

### DIRECTIONS:

Prepare a 10% solution by diluting 100ml of **BIOGREEN SOLAR PANEL CLEANER** with 900ml of very clean water (or demineralised water for optimum results). Simply spray this 10% solution of **BIOGREEN SOLAR PANEL CLEANER** using a hand held spray bottle . directly onto solar panels to ensure complete coverage. Agitate with a brush or applicator, then wipe off with a clean cloth, or rinse off with water. Suitable for use with a squeegee or water fed pole.

**Stubborn stains:** (Grease, tree sap, etc) Dilute 100ml of **BIOGREEN SOLAR PANEL CLEANER** with 200ml of clean water and apply.

CONTAINS: **ETHANOL 10-30%**

### BIODEGRADABILITY:

The surfactants used in **BIOGREEN SOLAR PANEL 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 Worksafe Australia.
- **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.

### SAFETY DIRECTIONS:

Keep all cleaning products out of reach of children. Keep away from sources of ignition. In case of accident, or if you feel unwell, seek medical advice immediately (show the label wherever possible).

### FIRST AID:

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

**For more information, the Material Safety Data Sheet is available for this product.**



CUSTOM CHEMICALS INTERNATIONAL PTY LTD  
103-107 Potassium Street  
Narangba 4504  
Queensland , Australia  
**Telephone Number:** +617 3204 8300  
**Facsimile:** +617 3204 8311

### PHYSICAL AND CHEMICAL PROPERTIES :

SPECIFICATION	TYPICAL VALUES
APPEARANCE	Transparent aqua liquid
ODOUR	Fragrant
ALKALINITY	none
pH	6.5 . 7.5 neat
FOAM HEIGHT	low . medium
SODIUM (Na)	< 0.1% w/w
PHOSPHATES	None present
BIO-DEGRADABILITY	Readily biodegradable
SURFACTANT TYPE	anionic
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.

**BIOGREEN SOLAR PANEL CLEANER** has been designed to be grey water safe. It breaks down into nutrients that are safe for the garden. It contains less than 0.1% sodium, is free of phosphate, and has a mild pH (6.5 . 7.5).