



## Section 1: Identification of the Material and Supplier

**Product Name:** Bio Green Apple

**Other Names:** Aqueous solution of mixed surfactants.

**Proper shipping name (ADG Code):** None assigned.

**Recommended use:** As a dishwashing detergent, and as a general purpose detergent. Use as directed on the product label.

**Supplier:** Hunters Products (TAS) Pty. Ltd.,  
A.C.N. 004 601 263

### HEAD OFFICE

60 Gleadow Street,  
INVERMAY TAS 7248  
Tel: 03 6331 4755  
Fax: 03 6334 1065

### HOBART OFFICE

105 Albert Road,  
MOONAH TAS 7009  
Tel: 03 6228 7955  
Fax: 03 6228 7988

### BURNIE OFFICE

22 Pearl Street,  
WIVENHOE TAS 7320  
Tel: 03 6431 9627  
Fax: 03 6432 2083

### Emergency Phone Numbers:

Transport/Fire Emergency: 000 (Emergency services)  
Medical Emergency: 131126 (Poisons Information Centre)

## Section 2: Hazards Identification

Not classified as hazardous according to criteria of Worksafe Australia.

Non-dangerous goods.

**Risk Phrases:** None assigned.

**Safety Phrases:** None assigned.

## Section 3: Composition/Information on Ingredients

### Ingredients:

Mixed surfactants	10 - 30 %
Other ingredients deemed not to be hazardous	< 10 %
Water	[7732-18-5] to 100 %

## Section 4: First Aid Measures

**For advice, contact a Poisons Information Centre (Phone 131126) or a doctor.**

**Swallowed:** If swallowed, do NOT induce vomiting.

**Skin:** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

**Eyes:** If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.

**Inhaled:** Remove from exposure, rest and keep warm. Seek medical advice.

### **First Aid facilities:**

**Recommended:** Eye wash. Hand wash basin.

### **Advice to Doctor:**

Product is an aqueous solution containing a moderate proportion of mixed surfactants. May be irritating to eyes. If swallowed, vomiting should not have been induced because of risk of aspiration of froth into the lungs. Contact Poisons Information Centre.

### **Aggravated medical conditions:**

Pre-existing skin disorders.

## Section 5: Fire Fighting Measures

**HAZCHEM Code:** None assigned.

**Evacuate:** No.

**Extinguishant:** Water.

**Risk of violent reaction or explosion:** No.

**Products of combustion:** Water vapour, oxides of carbon, oxides of nitrogen, oxides of sulphur.

**Protective Equipment:** Breathing apparatus and protective gloves for fire only.

## Section 6: Accidental Release Measures

**Emergency Procedures:**

Contain.

**For large spills:**

Contain spillages with sand or earth. Transfer both liquid and solids to suitable container(s). Treat residues as for small spills.

**For small spills:**

If local regulations permit, mop up with plenty of water and run to waste, diluting greatly with running water. Otherwise, absorb on inert absorbent and transfer to suitable container. Wash site of spillage thoroughly with water and detergent.

## Section 7: Handling and Storage

**Precautions for safe handling:**

Avoid contact with skin and eyes.

**Conditions for safe storage:**

Store in a cool, well ventilated place, out of reach of children. Large quantities should be stored in a bunded area. Store in original container. Keep container tightly closed and out of direct sunlight. Keep away from oxidising agents. Protect from physical damage. Clean up all spills and splashes promptly; avoid secondary accidents.

**Incompatibles:**

Oxidising agents.

## Section 8: Exposure Controls/Personal Protection

**National Exposure Standards:**

**ES-TWA:** None assigned.

**ES-STEL:** None assigned.

**ES-PEAK:** None assigned.

**Notations:** None.

**Biological Limit Values:** No data found.

**Engineering Controls:**

Ensure adequate ventilation (same as outdoors) when using. If handling industrial quantities, or if aerosol risk exists, consider local mechanical exhaust/extraction to keep airborne contamination as low as possible.

**Personal Protective Equipment:**

Avoid contact with skin and eyes. Avoid breathing aerosols.  
Personal protection to be selected from those recommended below,  
as appropriate to mode of use, quantity handled and degree of  
hazard:-

**Normal Use:**

Eye/face protection  
Gloves, rubber or plastic.

**Industrial Quantities:**

Face shield or safety glasses  
Gloves, rubber or plastic  
Plastic apron, sleeves and boots  
Impervious overalls.

## Section 9: Physical and Chemical Properties

Appearance: Clear, green, mobile, frothing solution.  
Odour: Perfumed.  
pH: 7.5 - 8.0  
Vapour Pressure: No data.  
Vapour Density: No data.  
Boiling Point: From 100 °C  
Melting Point: No data.  
Volatiles: About 85 %  
Volatile Organic Compounds (VOC): < 2 %  
Evaporation Rate: No data.  
Solubilities: Miscible with water in all proportions.  
Specific Gravity/Density: About 1 g/mL @ 20 °C  
Flash Point: None.  
Flammable Limits: None.  
Dust Explosion: Not applicable.  
Auto-ignition Temperature: No data.

**Other Information:**

Product is an aqueous solution containing a moderate proportion of  
mixed surfactants. May react with strong oxidising agents.  
Very slippery when spilled.

## Section 10: Stability and Reactivity

**Chemical Stability:** Stable under normal conditions.  
**Conditions to Avoid:** Incompatible materials.  
**Incompatible Materials:** Oxidising agents.  
**Hazardous Decomposition Products:** Oxides of nitrogen, oxides of  
sulphur.  
**Hazardous Reactions:** None known.

## Section 11: Toxicological Information

**Health Effects:**

No data available for the mixture. Information presented relates to individual ingredients.

<b>Acute:</b>	<b>Swallowed:</b>	Likely to cause gastric upset, discomfort or pain, nausea, vomiting and diarrhoea. An aspiration risk.
	<b>Skin:</b>	May be mildly irritating to skin. May cause itching, redness. Will have a degreasing effect on the skin.
	<b>Eyes:</b>	May be irritating to eyes. May cause redness and pain.
	<b>Inhaled:</b>	Aerosols may be irritating to the upper respiratory system. Aspiration of froth into the lungs during swallowing or vomiting may lead to chemical pneumonitis (irritation of lung tissues) and possible pulmonary oedema (fluid build-up in the lungs). Onset of symptoms may be delayed.
<b>Chronic:</b>		Repeated skin contact may lead to irritation, dry skin and dermatitic effects.
<b>LD<sub>50</sub>:</b>	Surfactant mixture	No data found.

## Section 12: Ecological Information

<b>Ecotoxicity:</b>	May be harmful to aquatic organisms.
<b>Persistence and degradability:</b>	The surfactants used in this product are considered to be 80 % biodegradable according to AS 1492.
<b>Mobility:</b>	Readily transported by water.
<b>Environmental Fate:</b>	No data.
<b>Bioaccumulative potential:</b>	No data.
<b>Other adverse environmental effects:</b>	Contains surfactant. Local concentrations may be harmful to aquatic organisms, including fish.

## Section 13: Disposal Considerations

The generator of any wastes from this product is responsible for its proper classification, transport and disposal.

Consult appropriate local and State regulations.

**Disposal methods and containers:**

Avoid disposal to natural waters.

**Special precautions for landfill or incineration:**

Unsuitable for incineration.

May be unsuitable for some landfill sites.

## Section 14: Transport Information

<b>UN Number:</b>	None assigned.
<b>UN Proper shipping name:</b>	None assigned.
<b>Class and subsidiary risk:</b>	None assigned.
<b>Packaging group:</b>	None assigned.
<b>Special precautions for user:</b>	Contain spillages.
<b>HAZCHEM Code:</b>	None assigned.
<b>Material for export:</b>	Not regulated.

## Section 15: Regulatory Information

<b>Poisons (SUSDP):</b>	Not a scheduled poison.			
<b>Dangerous Goods:</b>	No.			
<b>Carcinogen:</b>	<b>Australia</b>	<b>IARC</b>	<b>NTP</b>	<b>RTECS</b>
	No.	No.	No.	No.
<b>Agricultural and Veterinary Chemicals Act:</b>	Not applicable.			
<b>Australian Inventory of Chemical Substances (AICS):</b>	Listed.			
<b>Other National/International Regulations:</b>	No data.			

## Section 16: Other information

**Date of MSDS update:** August 2007  
Complete review and re-write of all sections.

**Abbreviations:**

NOHSC - National Occupational Health and Safety Commission.  
ACGIH - American Conference of Governmental Industrial Hygienists.  
MAK - Maximum workplace concentration - Germany,  
(*maximale Arbeitsplatzkonzentration*)  
IARC - International Agency for Research on Cancer (France).  
NPT - National Toxicology Program (USA).  
RTECS - Registry of Toxic Effects of Chemical Substances.

**Literature references:**

**Other Available Sources of Data:**

*National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [2011(2003)] - NOHSC.*  
*Australian Dangerous Goods Code.*  
*Standard for the Uniform Scheduling of Drugs and Poisons - AHMAC.*  
*Exposure Standards for Atmospheric Contaminants in the Occupational Environment [1003]- NOHSC.*  
*List of Designated Hazardous Substances [10005] - NOHSC.*  
*Merck Index - Merck Inc.*  
*Sax's Dangerous Properties of Industrial Materials - Lewis.*  
*Handbook of Toxic and Hazardous Chemicals and Carcinogens - Sittig.*  
*Handbook of Reactive Chemical Hazards - Bretherick.*  
*Hawley's Condensed Chemical Dictionary - Wiley Interscience.*  
*AUSREG's Chemical Data Package for PCs - AUSREG Consultancy.*