



**ENVIRONMENTAL
ASSURANCE**

ENVIRONMENTAL PRODUCT DECLARATION

LN: CCA-2009

Castle Chemicals Pty Ltd

Standard:
GECA 15-2006 – Hand Dishwashing Detergents

Conformance Declaration Date:
17th March 2009



**Environmental
Assurance**

*“ensuring accurate environmental
testing and verification of
conformance”*

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*“setting Australia’s product environmental
standards”*

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EPD

accurate
simplified
environmental
performance
information on
Environmental Choice
Australia Mark
Certified Products



environmental solutions for sustainable markets in Australia

The Environmental Choice Australia Mark ecolabelling program is the national product life cycle environmental declaration based on internationally recognized standard setting and assessment methodology.

The national program is managed by two distinct organisations:

Good Environmental Choice Australia Ltd. is the standard setting and sustainable consumption market promotions body which develops and declares the ecolabelling standards defining product environmental preference in conformance to ISO 14 024 – International Standard for Third Party Environmental Labelling and Declaration (www.geca.org.au). GECA is an independent non-profit environmental research and ecolabeling standard setting organisation recognised as the Australian member of an international network of ecolabelling schemes under the Global Ecolabelling Network.

Environmental Assurance (also trading as Good Environmental Choice Services Pty Ltd) is the auditing and certification body with responsibility for product assessment, certification and licensing of products against the declared standards (www.geca.org.au). GECS is the assessment body for this Program with expertise specific to quality product environmental performance auditing following the principles of ISO 14 010 and ISO 14 024 in it's audit and certification services.

Following an independent audit against the recognition requirements of the Australian Program this declaration outlines key environmental performance attributes of products that have been awarded the "Environmental Choice Australia" label for the Australian market. The Ecolabel is awarded to those products that meet or exceed voluntary standards of environmental performance.

The objectives of the program are to:

- a) Provide incentives for suppliers to reduce the environmental impacts of products sold in Australia;
- b) Provide a clear, credible and independent guide to consumers wishing to take account of environmental factors in their purchasing decisions;
- c) Encourage consumers to purchase products which have lower environmental impacts;
- d) Recognize genuine moves by companies to reduce the adverse environmental impacts of their products;
- e) Aim ultimately to improve the quality of the environment and to encourage the sustainable management of resources.

DISCLAIMER:

This report has been prepared by Good Environmental Choice Services Pty Ltd (Environmental Assurance) in respect of a Client's assessment results for product conformity to the requirements of the respective Good Environmental Choice Australia Ltd (GECA) standard. The purpose of this public report is to present summary evidence and overview of the Client's product conformity with the standards or other criteria specified. The content of this report applies only to matters which were evident to Environmental Assurance at the time of the audit within the audit scope. Environmental Assurance does not warrant or otherwise comment upon the suitability of the contents of the report or the certificate for any particular purpose or use. Environmental Assurance accepts no liability whatsoever for consequences to, or actions taken by, third parties as a result of or in reliance upon information contained in this report.



CERTIFICATION FINDINGS

The Hand Dishwashing product Green-Pro Supergreen manufactured by Castle Chemicals Pty Ltd has been assessed against the GECA 15-2006 – Hand Dishwashing Detergents Standard, and awarded the Environmental Choice Australia Eco-Label.

1. MANUFACTURER DESCRIPTION

Castle Chemicals Pty Ltd

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Castle Chemicals is an Australian owned company that has been in operation since the early 1970s. The Castle Cleaning Solutions division is responsible for the manufacture of cleaning products for the regional market. Castle Chemicals employs 42 staff and operates from a head office in Newcastle on the same site as the blending facility. The company also participates in end-user interaction as they provide delivery and restocking of cleaning products and equipment service to the local area.

Castle Post Harvest was incorporated in 1972 specifically to provide technical and manufacturing skills in the handling of fruit after harvest. Castle Post Harvest produces coatings for post harvest use on citrus, pome fruit, stone fruit, tropical fruits and vegetables.

Castle Post Harvest also produce a range of cleaners, degreasers, CIP Cleaners, sanitizers and hand care products designed for food processors.

Companies leading
Australia's environmental
response at work.

2: REGISTERED PRODUCTS

LN: CCA-2009

The following Castle Chemicals Pty Ltd products have been awarded the Environmental Choice Australia Declaration:



PRODUCT NAME	PRODUCT DESCRIPTION
Green-Pro Supergreen	Food grade hand dishwashing detergent concentrate.

Green-Pro Supergreen

Product Description . Food grade hand dishwashing detergent concentrate formulated to meet the criteria for an 'Australian Eco-label' as defined by Environmental Choice Australia Standard GECA 15-2006 Hand Dishwashing Detergents



Products with a distinctive environmental edge.

3. KEY ENVIRONMENTAL PERFORMANCE FINDINGS

The key environmental performance criteria against which the Castle Chemicals Pty Ltd products were assessed, and the findings by Environmental Assurance, are provided below.

Criterion	Core Environmental Performance Characteristics
Fitness for Purpose	<p>Internal testing was conducted using guidance from ISO 4189 – 1984 Standard for Surface Active Ingredients – Detergents for Hand Dishwashing – Guide for comparative testing for performance. Comparisons were made on performance between Green-Pro Supergreen and its commercially accepted predecessor “Supergreen” and also entry level and market leading competitor products. It was observed that Green-Pro Supergreen has superior performance compared to entry level competitor product and its predecessor “Supergreen”. Performance was generally equivalent to that of the market leading competitor product.</p> <p>Castle Chemicals have adopted and maintain a Quality Management System in accordance with AS/NZS ISO 9001:2000.</p>
Formulation Requirements	The Green-Pro Supergreen product does not contain any of the substances restricted by this criterion in the standard. The formulation is readily biodegradable and was designed to be so. The selection of raw materials during the development of this product avoided environmentally contaminating and health risk substances.
Surfactants	The surfactants meet the requirements of biodegradability in order to achieve a classification of “Readily Degradable” according to OECD method 301 guidelines. This classification is equivalent to AS4351 “ready biodegradability” rating.
Fragrance	The fragrance used in the Green-Pro Supergreen product is used in accordance with the “Code of Practice” compiled by the International Fragrance Association (IFRA).
Colours	The colorants used are included in the “List of Colouring Agents Allowed for Use in Cosmetic Products”. They fall in category 1 that allows the colouring agents to be used in all cosmetic products.
Consumer Information	The label for Green-Pro Supergreen includes all the relevant information regarding proper use and waste minimisation. The ingredients list complies with the EEC Commission Recommendation for Labelling of Detergents and Cleaning Products
Packaging Requirements	The certified Castle Chemicals Pty Ltd Green-Pro Supergreen product uses a High Density Polyethylene (HDPE) bottle and a Polypropylene (PP) cap. Both the bottle and the cap have relevant resin identification codes stamped on them.
Environmental Regulations	Castle Chemicals Pty Ltd complies with relevant environmental regulations.
Labour, Anti-Discrimination and Safety Regulations	Castle Chemicals Pty Ltd complies with relevant local and national social and workplace requirements.

Quantifying key criteria for assurance to the market.

FURTHER INFORMATION

A detailed Verification report is supplied to verified manufacturers regarding the findings of environmental characteristics of their products and evidence of compliance. The verification report can be made available at the sole discretion of the manufacturer.

This EPD has been made available for green purchasing officers, specifiers, and every day Australians seeking to purchase products and services on the basis of functional and overall environmental and human health performance.



**ENVIRONMENTAL
ASSURANCE**

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FURTHER INFORMATION ON THE WEB

The Australian Ecolabel Program is the national environmental product life cycle labelling program for Australia. Further details of the Australian Ecolabel Program are available from www.envassurance.com and www.geca.org.au.