

**ENVIRONMENTAL PRODUCT DECLARATION
CLEANERS, DETERGENTS, HOME CARE AND PERSONAL CARE PRODUCTS
Australian Environmental Labelling Association Inc**



**Good Environmental Choice Verification Information:
Initial Verification Conformance Date: 22 May 2004**

A comprehensive range of personal care and home care products by Herbon Natural Products Pty Ltd has been assessed and has been accepted as compliant to the requirements of the " Good Environmental Choice" Label. The requirements of the verification are publicly available at www.aela.org.au.

1. Description Of Company and Production

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The range of home care and personal care products by Herbon Natural Products meet the high environmental expectations of Australians. The product range offers 21 certified products that have been formulated with environmental and human health considerations in mind and are suitable for most commercial and domestic uses in Australia.

In comparison to other commercially available products the " Good Environmental Choice" certified products from Herbon contain chemical formulations which are readily biodegradable are effectively treated in town sewage facilities reducing water pollution are formulated with natural and low toxicological compounds mainly being from natural substances and oils and which have the benefit of being gentle and suitable for people with sensitive skin. The primary environmental impacts of detergents, general cleaning and personal care products that have been applied to this verification include:



- the toxicity and ecotoxicity of chemical formulations such as solvents, surfactants, fragrances, colourants,
- the levels of volatile organic compounds, phosphonates, sodium,
- the biodegradability of aerobic and non-aerobic substances,
- product formulation restriction on endocrine disruptors or enzymes,
- the chemical nature of preservatives,
- the comprehensiveness of consumer information and the type or packaging and recycling options in Australia including marking of the type of plastics and requirements for recycled fibre for cartonboard packaging.

When these important environmental attributes are assessed the results of this verification demonstrate the certified Herbon range have significant environmental load reductions compared to similar products in Australia.

2. Description of the verification.

The Australian Environmental Labelling Association Inc. manages the Good Environmental Choice – Mark of Conformity in conformance to ISO 14 024 – International Standard for Third party Environmental Labelling and Declaration as the only product life cycle independent environmental declaration in Australia (www.aela.org.au)

The organisation and is an independent non-profit environmental research and certification organisation recognised as the Australian member of an international network of ecolabelling schemes under the Global Ecolabelling Network.

Following an independent audit against the below environmental labelling and declaration standards by the Australian Environmental Labelling Association Inc the product has been awarded the "Good Environmental Choice" label for the Australian market. The relevant Standards for this verification are:

- AELA20 - General Purpose Cleaners Standard
- AELA 19 - Laundry Detergents Standard
- AELA 17- Hand Dishwashing Standard
- AELA 18 - Machine Dishwashing Standard
- AELA 6 - Toiletry Products Standard
- AELA Shampoo, Body Shampoo, Liquid and Solid Soap Products Standard:

The criteria and environmental performance characteristics tested are available at:
<http://www.aela.org.au/standardsregister.htm>

The Ecolabel is awarded to those products that meet or exceed voluntary standards of environmental performance. The verification procedure is managed via a Documented Quality Management System and Certification Program Manuals which have made significant use of the ISO 14 000 series. The following standards have been adapted to the programs requirements, ISO 14 001, 14 0012, the 14020 series, 14 031 environmental performance evaluation, 14040. This verification report has been compiled in conformance to these procedures and ISO 14 024.

3. The manufacturing operations

Herbon was founded in 1982 (formerly known as Puren Australia) by an industrial chemist who was actively involved in the research and development of environmentally preferable and allergy free products. Herbon Pty Ltd is run as a family business and services the Australian market through distributors to health food outlets, supermarkets, pharmacies and food co-operatives. Herbon Pty Ltd has a warehouse factory and head office in Carrum Downs in Melbourne, Victoria where the products are manufactured.

The Carrum Downs warehouse facility is the primary site of manufacture equipped with a dry mixing area for all powder products and four mixing vats of varying sizes to mix liquid products. The end product is stored in the front half of the warehouse awaiting transportation. It is then distributed via road by sub-contracting transport companies to distributors who are responsible for any additional off site requirements such as selling the product.



Herbon Pty Ltd is recognised as being a leader in producing environmentally preferable home and personal care products market.

4. The Certified Product Range

Standard	Brand Name
AELA20/General Purpose Cleaners Standard:	Herbon Multi Purpose Spray/Refill; Herbon Pure Ground Soap.
AELA 19/Laundry Detergents Standard:	Herbon Laundry Powder; Herbon Prewash Stain Remover; Herbon Laundry Liquid.
AELA 17/Hand Dishwashing Standard:	Herbon Dishwashing Liquid.
AELA 18/Machine Dishwashing Standard:	Herbon Rinse Aid.
AELA 6/Toiletry Products Standard:	Herbon Roll-On Deodorant, Herbon Moisturising Cream; Herbon Anti-Insect Repellent; Herbon Body Lotion.
AELA Interim Shampoo, Body Shampoo, Liquid and Solid Soap Products Standard:	Herbon Botanical Soap; Herbon Baby Soap; Herbon Liquid Soap/Refill; Herbon Ginseng Shampoo; Herbon Nettle Shampoo; Herbon Anti Dandruff Shampoo; Herbon Vanilla Shampoo; Herbon Wild Strawberry Shampoo; Herbon Hair Conditioner; Herbon Dog Shampoo.

5. Summary of the environmental characteristics of Home Care Products

Herbon Home Care Products:

Herbon Multi Purpose Spray/Refill
Herbon Pure Ground Soap
Herbon Laundry Powder
Herbon Prewash Stain Remover
Herbon Laundry Liquid
Herbon Dishwashing Liquid
Herbon Rinse Aid

Chemical Formulation Requirements:

- The Formulations does not contain a range of toxic substances often included in these product groups.
- The restricted compounds are reactive chlorine compounds such as hypochlorite or organic chlorine carriers, substances classified as carcioneogenic and a limit on 0.1% of substances classified as mutagenic or tetragenic. The formulation does not include any substances that are classified as mutagenic or tetragenic.
- And less than 1% of substances classified as contact sensitisers.
- Certain additional reactive detergent toxic compounds such as EDTA, NTA; APEOs; are not present in the formulations.
- All surfactants are readily biodegradable.

Solvents:

The products do not contain halogenated organic solvents or butoxy-ethanol or volatile organic compounds in excess of 10% by weight as measured by internationally recognised testing procedures.

Enzymes:

Certified Herbon products do not utilise any enzymes in their formulations. Enzymes allowed in some detergent products in Australia have been subject to scrutiny and debate with regard to their environmental and human health effects.

Phosphonates/Solvents:

Recommended dosages on containers for Herbon Laundry Detergents deliver below 25 g/wash for Sodium Tripolyphosphate (STPP). Herbon General Purpose Cleaners do not contain halogenated organic solvents, or butoxy-ethanol.

Fragrances:

The product do not contain fragrances containing carcinogenic mitromusk

Common Name	CAS-No
Moskusxylene	81-15-2
Moskusambrette	83-66-9
Moskene	116-66-5
Moskustibetin	145-39-1
Moskusketone	81-14-1

Colourants:

The Herbon range of certified products do not contain any artificial colourants resulting in a lower water pollution loads or human sensitisation against these widely used compounds.

Consumer Information and Packaging Requirements

The detergents are accompanied by instructions for proper use so as to maximise product performance and minimise waste.

All detergents must display on the container a list of product ingredients.

All plastic containers and plastic components are made of plastic that are recycled in Australia.

Packaging is not impregnated, labelled, coated or otherwise treated in a manner, which would prevent recycling

All plastic packaging (i.e. container, cap, measuring devise) have a plastic resin identification code clearly visible on each item.

Packaging (including labels) does not contain PVC or any type of chlorinated materials.

All plastic containers used for packaging both products are made from high density polyethylene (HDPE) and are recyclable. The cardboard packaging used to package smaller items for transportation is 100% recycled material sourced from VISY Recycling.

6. Summary of the environmental characteristics of Personal Care Products

Products Certified under the Standard for Shampoo, Body Shampoo, Liquid and Solid Soap product. Herbon Botanical Soap; Herbon Baby Soap; Herbon Liquid Soap/Refill; Herbon Rinse Aid; Herbon Body Lotion; Herbon Ginseng Shampoo; Herbon Nettle Shampoo; Herbon Anti Dandruff Shampoo; Herbon Vanilla Shampoo; Herbon Wild Strawberry Shampoo; Herbon Hair Conditioner.

Surfactants

All surfactants are readily and anaerobically biodegradable within 21 days. There are no linear alkylsulphonates (LAS) alkylphenol derivatives (APD) and alkylphenol ethoxylates (APEO) in any Herbon Personal Care products.

Non-readily degradable substances (aerobic and anaerobic)

All ingredients are readily biodegradable within 21 days.

Preservatives

No preservatives are used in Herbon personal care products.

Endocrine Disruptors:

The following endocrine disruption are not found in these products as defined in accordance with the EU list of substances causing endocrine disruption classes 1 and 2 and that are found on the INCI-list. The EU-list and the INCI-list has been review and substances that are found on both lists are found below. Since this is a flexible list, it may be extended by the addition of new substances during the period of validity of the criteria. This table will also encompass any new substances.

Category 1	Cas-no.	Category 2	Cas-no.
Styrene	100-42-5	4-chloro-3-methylphenol	59-50-7
Butylbenzylphthalate (BBP)	85-68-7	Diisodecyl phthalate	26761-40-0
Di-(2-ethylhexyl)phthalate (DEHP)	117-81-7	Diisononyl phthalate = 1,2-Benzene-dicarboxylic acid, diisononyl ester (DINP)	28553-12-0
Di-n-butylphthalate (DBP)	84-74-2	o-phenylphenol	90-43-7
2,2-bis(4-hydroxyphenyl)propane =Bisphenol A	80-05-7		
Resorcinol	108-46-3		

Complexing agents

Neither nitrilotriacetate (NTA) nor ethelene diamine tetra acetate (EDTA) is found in any Herbon Personal Care Products. There are no phosphonates in liquid products. Phosphonates for solid soaps are limited to 0.6 mg/g of active content ingredients.

Fragrances:

All fragrances in Herbon's Personal Care range comply with IFRA - International Fragrance Association Code of Practice guidelines. *IFRA Guidelines can be found on www.ifraorg.org/guidelines.asp*

Musk xylene (CAS-no.81-15-2) and Musk keton (CAS-no.81-14-1) are not present in the product.

The following fragrance substances are not be present in the product in quantities exceeding 0.01%.

Name	CAS. No.
Amyl cinnamal	122-40-7
Benzyl alcohol	100-51-6
Cinnamyl alcohol	104-54-1
Citral	5392-40-5
Eugenol	97-53-0
Hydroxycitronellal	107-75-5
Isoeugenol	97-54-1
Amylcinnamyl alcohol	101-85-9
Benzyl salicylat	118-58-1
Cinnamal	104-55-2
Coumarin	91-64-5
Geraniol	106-24-1
Hydroxymethylpentylcyclohexenecarboxaldehyd (Methyl heptine carbonate)	31906-04-4
Anisyl alcohol	105-13-5
Benzyl cinnamat	103-41-3
Farnesol	4602-84-0
2-(4-tert-butylbenzyl)-propionaldehyd (Lilial)	80-54-6
Linalool	78-70-6
Benzyl benzoate	120-51-4
Citronellol	106-22-9
Hexyl cinnamaldehyd	101-86-0
d-Limonen	5989-27-5
Methyl heptin carbonat	111-12-6
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-on (ã -Methylione)	127-51-5
Oak moss	90028-68-5
Tree moss	90028-67-4

Colouring agents

There are no colours used in Herbon Personal Care Products.

pH Regulators

Boric acid, borates and perborates must not used in any Herbon Personal Care Products.

Toxicity of Formulation

No Herbon Personal Care products under this standard are formulated or manufactured with any ingredients that are mutagenic, carcinogenic or reproductive or development toxicants.

Consumer Information and Packaging Requirements

The detergents are accompanied by instructions for proper use so as to maximise product performance and minimise waste.

- All detergents must display on the container a list of product ingredients.
- All plastic containers and plastic components are made of plastic that are recycled in Australia.
- Packaging is not impregnated, labelled, coated or otherwise treated in a manner, which would prevent recycling
- All plastic packaging (i.e. container, cap, measuring devise) have a plastic resin identification code clearly visible on each item.
- Packaging (including labels) does not contain PVC or any type of chlorinated materials.
- All plastic containers used for packaging both products are made from high density polyethylene (HDPE) and are recyclable. The cardboard packaging used to package smaller items for transportation is 100% recycled material sourced from VISY Recycling.

Products Certified under the *Personal Care Products Standard* are Herbon Roll-On Deodorant, Herbon Moisturising Cream, Herbon Anti-Insect Repellent and Herbon Body Lotion products.

Material Content

Product ingredients were found to be carcinogenic substances in categories 1 or 2A as classed by the International Agency for Research on Cancer. Individual components were not ranked within the first 200 compounds by the Australian Pollution Inventory nor exceed 1% by volume and the total amount of components classified as hazardous to the environment did not exceed 2% by volume.

Cleaning of Production Equipment

Solvents used to clean the production equipment was water and hence did not contain ozone depleting substances as listed in Annex A, Annex B and Annex C of the Montreal Protocol or those listed below available under application for use in certain industries.

Name	Chemical Formula	ODP	Other Names
Hexachlorobutadiene	C ₄ Cl ₆	0.07	HCBD
n-propyl bromide	1-C ₃ H ₇ Br or CH ₂ BrCH ₂ CH ₃	0.0033-0.111	1-bromopropane, CH ₂ BrCH ₂ CH ₃ and nPB
1,1,1-trichloro-2,2,2-trifluoroethane	CFC-113a	0.65	R.113a
6-bromo-2-methoxy-naphtalene	C ₁₀ H ₆ BrOCH ₃		bromo-methoxy-naphtalene, BMN (CAS number 511165-9)
Halon-1202	CBr ₂ F ₂	Best Estimate: 1.25	dibromodifluoromethane, difluorodibromomethane, Freon 12-B2, R12B2 and UN1941
1-bromo-3-chloro-propane	CH ₂ ClBr	Guess – 0.05	
Bromochloromethane**	CH ₂ BrCl	0.12	chlorobromomethane

Packaging

- All plastic containers and plastic components are made of plastic that are recycled in Australia.
- Packaging is not impregnated, labelled, coated or otherwise treated in a manner, which would prevent recycling. Packaging (including labels) does not contain PVC or any type of chlorinated materials.
- All plastic containers used for packaging both products are made from high density polyethylene (HDPE) and are recyclable.

Environmental and Social Regulatory Obligations:

The manufacturing facility is suitably zoned and contains all emergency evacuation procedures and fire control infrastructure. The manufacturing operation is not subject to any licences related to Local, State or Federal environmental regulations.

The Australian Environmental Labelling Association Inc is not aware of any environmental complaints or breaches of environmental regulations by Herbon Natural Products Pty Ltd. The organisation maintains a culture responsive to its current strong human health and environmental reputation and environmental leadership on the market.

The enterprise is a family business. The operation is however of such size that proper administrative and payment systems are kept. The operation demonstrates compliance to above minimum award wages as the basis of remuneration, with suitable conditions such as holiday pay to the sole employee. The manufacturer has not been subject to legal proceedings regarding wages in the last 36 months.



Occupational health and safety was demonstrated by having sufficient fire hoses and extinguishes in appropriate locations with clearly marked exits, use of an electric forklift to carry larger containers around the warehouse. There had been no incidents of an occupational, health and safety nature arising from operations in the last 36 months. The manufacturer has not been subject to legal proceedings regarding occupational health and safety in the last 36 months. The manufacturer has a current insurance policy regarding for injury and accidents on-site.

Additional Information

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

The Australian Ecolabel Program is the national environmental product life cycle labelling program for Australia. Further details of the Australian Ecolabel Program are available at <http://www.aela.org.au>.



For More Information:

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