



ABOUT AMWAY:

ENVIRONMENT

50 YEARS OF COMMITMENT TO THE ENVIRONMENT

www.amway.com.au

www.amway.co.nz



Introduction

Mission Statement

We believe that the proper use and management of the world's resources are the responsibilities of industry and individuals. We recognise our responsibility and role in fostering and promoting sound environmental stewardship.

Long History of Commitment to Environmental Innovation

- Beginning in 1959, Amway were one of the first to introduce biodegradable products. e.g. L.O.C. multipurpose cleaner.
- We were an innovator in using biodegradable surfactants in SA8 laundry detergents and other cleaning products.
- In 1978 we eliminated the use of CFC's (chlorofluorocarbons, which may cause ozone damage) from our products before it was required by law.
- In 1989 we received the prestigious United Nations Environment Programme Award for Achievement in recognition of our commitment to environmental protection and awareness.
- Also in 1989 we helped focus world attention on the environment by sponsoring the International North Pole Expedition.

Organic Farms

- Nutrilite, the manufacturer of our NUTRIWAY® products are the only global vitamin and mineral brand to grow, harvest and process plants on their own certified organic farms.
- We also use sustainable farming practices to enhance and sustain the relationship between farming and nature.



Reducing Waste

- As a signatory to The Australian Packaging Covenant, Amway of Australia is fulfilling its obligations to reduce, reuse and recycle packaging.
- Amway household cleaners use significantly less packaging per use than similar competitive products.
- All shipping cartons purchased by Amway of Australia are made from 100% recycled material.
- Our 1 litre plastic bottles contains the maximum allowable content of recycled post-consumer plastic.
- Amway of Australia's warehouse has efficient systems for reusing or recycling over 99% of used shipping cartons and shrink wrap.
- Amway's head office has implemented recycling facilities in the staff cafeteria and in public access coffee shop and shop.
- To facilitate recycling, most of our plastic contains are embossed with a code to identify the plastic type.



Packaging

Australian Packaging Covenant

Amway has been a signatory to the National Packaging Covenant since 2004. The National Packaging Covenant has now been replaced by the Australian Packaging Covenant which emphasises the use of sustainable packaging while still encouraging reuse and recycling of packaging. Amway has developed their Australian Packaging Covenant action plan covering 2010 to 2015.

Usefulness of Packaging

Packaging ensures that the products we use are protected, safe, easy to use and clearly labelled. It helps preserve food without refrigeration and stops the spread of bacteria and disease.

Consumers want not only freshness and convenience, but also environmentally responsible packaging. Accordingly, Amway has developed concentrated products to reduce the amount of packaging material used and developed systems to encourage reuse and recycling of used packaging.

Concentrated Products

Significant reductions in the overall weight of packaging can be achieved by formulating concentrated products that provide consumers with more uses per litre of product and also by efficient package design to provide maximum product protection with a minimum amount of packaging.

The table below compares the weight of plastic packaging per use for AMWAY HOMEcare products and other brands. The Amway products listed below use between 2.2 times and 18 times LESS plastic packaging per use than other brands.

PRODUCT	PACKAGING WEIGHT
AMWAY HOME L.O.C. Multi Purpose Cleaner	0.66 grams per 100 mL use solution
Pine O Clean All in 1 Multi Purpose Cleaner	12.0 grams per 100 mL use solution
Ajax Spray n Wipe Multi Purpose antibacterial	11.37 grams per 100 mL use solution
AMWAY HOME SA8 Liquid Laundry Detergent	1.32 grams per wash
Omo Liquid Sensitive Small Mighty, 3X Active	2.9 grams per wash
Dynamo – Liquid detergent Superior Stain remover with boost of SARD Oxy Plus stain	4.1 grams per wash
AMWAY HOME SA8 Fabric Softener	0.66 grams per wash
Cuddly Ultra –Sunshine Fresh Concentrate Fabric Conditioner	1.52 grams per wash
Fluffy Ultra 4X concentrate-Summer Breeze	1.5 grams per wash
AMWAY HOME All Fabric Bleach	0.72 grams per wash
Vanish Napisan Oxy Action Stain Remover	2.0 grams per wash
SARD Oxy Plus Antibacterial Power Stain Remover	2.4 grams per wash
AMWAY HOME L.O.C. Glass Cleaner	1.96 grams per 100mL use solution
Windex Glass Cleaner, Crystal rain refreshing Scent	12.6 grams per 100mL use solution
SA8 Bioquest Laundry Concentrate 1 kg.	1.10 grams per wash
Cold Power Brilliant with touch of Cuddly fabric conditioner	3.21 grams per wash
Fab with touch of Fabric Softener-Sunshine Fresh	3.5 grams per wash
Omo Front Loader Sensitive Small mighty powder detergent	3.6 grams per wash



Responsible Use of Packaging at Amway

At Amway:

- Most packaging materials used are recyclable cardboard, aluminium and HDPE, i.e. materials that are readily recycled.
- We reuse or Recycle 99% of our incoming shipping cartons.
- All shipping cartons purchased by Amway of Australia are made from 100% recycled material.
- We recycle all shrink wrap and insulation material used in our warehouse.
- A high percentage of the packaging used on site is sent for recycling.
- 95% of all the packaging in which we sell our products can be readily recycled.
- Office paper and ink cartridges are sent for recycling.
- Green-Pak® is the void fill packaging material in shipping cartons sent from the Amway warehouse to our customers. It is made from Australian wheat, is a lightweight and fully biodegradable packaging material. This material can be used as quality compost for your garden, as it is designed to break down into naturally in the soil.

Reduce

Excessive packaging depletes our natural resources, needlessly produces greenhouse gas and consumes valuable energy.

The first tier for responsible packaging use is to design products and packaging that use only the minimum amount of material to protect and transport the goods. Packaging in excess of functional requirements should be avoided, particularly when it is only for aesthetic appeal.

The Australian Packaging Covenant requires Amway to undertake a sustainability assessment of packaging for all new packaging.

95% of the packaging sold with Amway products is readily recyclable. We maintain a high overall product/packaging ratio of about 2.35/1.

Re-use

Re-using packaging has less environmental impact than recycling, so it is the second tier for responsible packaging use.

Consumers can do several things, for example:

- Use refillable drinking water containers and fill from your eSpring instead of buying bottled water.
- Bring your own bags and containers when shopping.
- Buy spreads in glass tumblers that can be re-used as drinking glasses.
- Bring your own cup for take-away coffee when you are away from home.



Amway takes re-using seriously and our distribution centre reuses a significant number of the cardboard cartons in which we receive our stock.

Recycle

Recycling converts waste material into useable products. Recycling recovers materials used in the home or in industry for further uses. You should only recycle after you've tried to reduce and reuse.

The availability of recycling facilities in your area will determine specifically what you can recycle. The following link provides a very useful guide to enable you to search for suitable recycling facilities in your locality.

<http://recyclingnearyou.com.au/>

Environment, Social and Economic Advantages

Reducing, reusing or recycling of packaging:

- Helps prevent environmental pollution.
- Saves natural resources.
- Conserves raw materials used in industry.
- Making products from recycled ingredients often uses much less energy than producing the same product from raw materials.
- For example, it is much more energy efficient to recycle aluminium than to produce new aluminium cans from bauxite. Recycling aluminium uses only 5% of the energy used to create new aluminium and emits only 5% of the greenhouse gases. In Australia over 70% of aluminium cans are recycled.
- Recycling reduces the amount of material dumped in landfill sites and helps our waste disposal problems.
- Goods are used productively and prevented from becoming litter and garbage.



Product Safety

Amway is committed to product safety. This is evidenced by strong management and budgetary support. Amway's safety program has been benchmarked against those of other top multi-national companies and found to be among finest in the world.

Marketing programs and associated product claims are not only based on product performance, but also on product safety. Claims for cosmetic product such as "Dermatological tested", "Allergy tested" and "safe for sensitive skin" receive the same prominence as the more traditional performance claims.

The process of product safety begins in the very early stages of product development. Before any testing of formulated product can begin, all individual raw materials ingredients must be reviewed for their safety and regulatory compliance. All must have established safety profiles. Before any formulation work begins in the laboratories, a "product profile" is agreed upon by the marketing and product development groups. Part of this document is a listing of the safety related claims, which are proposed for the product. Based on this, product safety toxicologists recommend a safety testing plan, outlining appropriate test to be conducted and associated timing and costs.

Product Safety Assessment at Amway

Safety assessment has evolved into a process whereby many factors are considered before a determination of safety is made. Any or all of the following may be a part of our safety assessment:

- Experience with formulations and/or ingredients known to be safe,
- Scientific literature,
- Supplier-provided health & safety data,
- In vitro ("test tube") testing,
- Human clinical evaluations, and
- Consumer Panel testing.



Evaluation of the Formula

The first five resources are employed in our initial analysis of any new or modified formulation. From a safety viewpoint, it is best that ingredients be used have been previously reviewed for safety and found to be acceptable for the proposed use.

For unfamiliar ingredients, we consult the scientific literature, Material Safety Data Sheets, and other toxicity information from suppliers. We also consider the similarity of the ingredient in question to chemicals with known hazards and/or established safety data.

In Vitro “test tube” Testing

In vitro testing allows the Amway toxicologists to estimate toxicity of new formulations and ingredients compared to related materials of known toxicity. Results can be employed:

- to assist Amway chemists in developing the mildest possible products,
- to understand irritation potential of more aggressive products,
- to determine appropriate label language, and
- to signal suitability for human clinical trials.

Many assays were evaluated before we arrived at our core set of in vitro safety tests which include the use of:

- bovine corneas obtained as a slaughter-house by-product, and
- human skin cells.

Testing With Human Volunteers

This testing is performed:

- to substantiate safety,
- to support product claims, and
- in some cases, to comply with regulatory requirements.

Of course, before beginning these tests, we must be confident that they will not produce unexpected, adverse results. This confidence is supported by a thorough knowledge of ingredient hazards, many years of experience with similar formulations and when in vitro testing suggests no irritation potential.

The physical state of the product and its intended use are factors into the decision on which of the following human test(s) will be employed:

- Skin Sensitisation
- Cumulative Skin Irritation
- Photobiology
- Eye Area Safety
- Controlled-Use Studies
- Hand Soaking
- Hand Washing
- Soap Chamber



Test results can also trigger reconsultation with formulators but this is an uncommon occurrence. Typically, test results confirm our predictions that the products are safe for their intended uses and that the new formulation can proceed to Sensory and Consumer Research, where panel testing evaluates consumer acceptability in actual-use situations.

Summary

Formula evaluation, in vitro assays and human clinical trials constitute step-wise components of Amway's comprehensive safety evaluation process.

Amway is a marketer of wide range of products, which include homecare, home tech, personal care, health & beauty.

All Amway products sold in Australia and New Zealand comply with the relevant regulations in each country, thus providing additional assurance on the safety of our products.

Material Safety Data Sheets (MSDS)

Regulations require that MSDS be provided for hazardous substances used in the workplace.

MSDS for products classified as hazardous, can be downloaded by logging in and going to: Resources > Downloads > MSDS



Organic Farming

Organic and Sustainable Farming

Our organic farming practices blend cultural practices, land preparation and farm management with a goal of enhancing healthy, productive soil for growing quality plants that resist diseases and insects. Managing soil's organic matter and organisms is key to organic farming practices.

In addition, our sustainable farming practices aim to enhance and sustain our relationships between farming and nature.

Organic Farming Practices

Organic farming enhances healthy, productive soil. Nutrilite, the manufacturer of NUTRIWAY® dietary supplements, is the only global brand to grow, harvest and process plants on its own certified organic farms.

Why organic? Our use of organic farming practices actually began with Nutrilite founder Carl Rehnborg:

- He grew his crops in accordance with nature.
- He felt that replenishing the soil, rather than depleting its nutrients, would ultimately produce better crops.
- He used natural methods to control harmful weeds, insects, and predators.

Organic: An Environmentally Friendly System

Our organic farming practices blend cultural practices, land preparation and farm management with a goal of enhancing healthy, productive soil for growing quality plants that resist diseases and insects. Soil is a living system ' much more than mere dust and rock. Managing soil's organic matter and organisms is key to organic farming practices.

The regulated practice of most "organic farming systems" eliminates chemical pesticides, herbicides, and fertilizers. The agencies that certify organic farms specify all allowable and prohibited substances to be used.



How Our Farms Operate Organically

All Nutrilite farms follow a program of continually enhancing the soil with cover crops, green manure crops, composts, and other naturally mined materials required for crops to flourish.

We conduct annual soil tests, to determine which mined minerals and composts should be added to balance the soil and make it a healthy ecosystem for all the living micro-organisms and earthworms that contribute to the growth of the plants.

We also plant cover crops specifically to help improve the soil, protect it from erosion, and conserve nutrients and moisture.

Crops are rotated to enhance the vitality of the soil complex, and to minimise the need for tilling. Tilling can expose the soil to erosion, and speeds up decomposition of organic matter, which can be detrimental to micro-organisms and earthworms.

Controlling Weeds

Weeds are controlled and suppressed in a variety of ways:

- Crops are rotated to help prevent weeds from growing.
- Specific plants are used to help suppress weeds, nematodes, and certain other plant diseases.
- Plants are mechanically cultivated and hand-weeded.

Controlling Pests

Pests at our farms are controlled through natural methods:

- We encourage nature's own system of balance by providing habitats and food for natural enemies of pests.
- Ladybugs, green lacewings, hawks, owls, sheep, and other natural predators control insects and vertebrate pests.
- We also use natural sprays approved by the certifying agencies.

The best supplements begin with the best plants.



Sustainable Farming Principles

The Essence of our Sustainable Farming System

The Nutrilite farms are engaged in a bio-intensive type of farming, emphasizing the responsible management of biological interrelationships - such as those between pests and natural enemies - and the use of natural processes to build soil health and plant nutrition. We emphasise and stimulate sustainable biological intensive agricultural practices, rather than “quick-fix” methods and materials for growing crops. Our goal is to enhance and sustain the relationship between farming and nature.

8 Features of our Sustainable Farming Systems

1. Considering the farm as an organism - including the interaction and diversity of the people, animals, plants and elements of the earth working together in perfect balance
2. The integration and diversity of the plants that are cultivated, and the people and animals living on the farm.
3. The preservation of habitats - natural ecological areas within the farm boundaries to sustain the diversity of both native plant and animal species.
4. Wide based soil nutrition - protecting the soil as a living organism, with the goal of maintaining 45 to 50 elements in the soil by feeding the soil natural materials.
5. No contamination allowed - creating a healthy and thriving base so that the need for curative measures is limited.
6. Preservation and cultivation of a wide variety of seeds.
7. Traceability of every action performed on each piece of land, so that we may truly work as one with nature and respect the farm as a living organism.
8. Social life - ensuring that the farm is a viable operation that will provide economic security and sustainability for the families who depend on it.



Environmental Impact

Homecare Products and the Environment

Home care products are Amway's heritage and will continue to play an important role as a door opener to new customers and provide a positive image for the Business Opportunity. Amway's homecare range offers products that are convenient and effective in use and have attractive yet functional packaging. At the same time they are formulated to help ensure minimal environmental impact.

Biodegradability

What is Biodegradability?

Biodegradation refers to the breakdown of substances by biochemical processes. "Ultimate" biodegradation means that the substance is not just broken down, but is completely reduced to its most simple components (carbon dioxide, water, minerals, etc.). Micro-organisms such as bacteria and fungi perform this activity in soil and water to gain energy or nutrients. Biodegradation is an important natural process that returns nutrients into the cycles that sustain life.

What are the benefits of biodegradability?

Biodegradability ensures that a chemical will not persist indefinitely in the environment. Biodegradation directly reduces the exposure of plants and animals to substances, thereby reducing potential toxicity. Biodegradation eliminates the potential for long-term unforeseen environmental effects. Complete biodegradation is a way to help ensure that a substance will not have an adverse impact on the environment.

What claims do Amway make for biodegradability?

The surfactants in all Amway cleaning products meet international and Australian standards for biodegradability.

Why do biodegradability claims often only address surfactants?

Surfactants are the major ingredients in many cleaning products. Surfactants are useful in cleaning products partly because they reduce the surface tension of water. Unfortunately, this important cleaning characteristic is undesirable in the environment for two reasons:

- It causes unsightly foaming in rivers and wastewater treatment plants;
- It makes it difficult for fish and other animals with gills to breathe.

Biodegradation during wastewater treatment removes surfactants from water before they cause problems in the environment.



How long does it take for biodegradation?

Biodegradation tests are usually evaluated on a pass/fail basis since the rate of degradation varies with conditions. In biodegradation screening tests, up to 28 days is allowed for biodegradation for a substance to pass as “readily biodegradable.” In the real world, actual biodegradation rates can be much faster. Some surfactants biodegrade completely in a few hours or less under conditions similar to realistic water treatment. Under different conditions, such as colder temperatures or a different microbial mixture, the time required to biodegrade will be longer. Since the surfactants in our products are known to be biodegradable, we can be sure that they will be quickly eliminated in any properly operating sewage treatment plant or septic system.

Septic Systems

A significant percentage of our population has their household waste water treated using a waste treatment system in their own yard.

Many Amway customers have asked which Amway products can be used where waste water is treated in traditional septic tank systems or other household sewerage treatment systems.

The U.S. Soap and Detergent Association (SDA) completed a 5 year study and concluded, “When used as directed, household cleaning products are safe for septic tanks”.

Amway has not tested each of its products to specifically confirm compatibility with septic tanks. Nonetheless, based on the SDA findings, it is our firm belief that all Amway Home Care products are completely safe for all types of household waste treatment systems, including traditional septic tanks as well as other types of household sewerage treatment systems (e.g. Bio Cycle, Envirocycle, Aquanova), when used as directed.



Grey Water

Estimates suggest that the average Australian family of four uses up to 4000 litres of water per week in the kitchen, bathroom and laundry. A significant amount of this water may be re-used to help conserve our precious water resources.

What is grey water?

Household grey water is the wastewater produced from a home that does not include significant amounts of food or faecal waste (black water). Most commonly this refers to laundry water and bath/shower water.

Which Amway products are safe for use in my grey water system?

We believe that all of our products that are used in showers and laundry can be used safely in grey water systems. For example wash water from SA8 Premium with Bioquest contains no phosphorus, has a very low level of sodium (approximately 6 grams per wash) and has a pH less than 10.

There are many factors that determine the safety of grey water to people and plants, so we cannot make recommendations for your specific situation. Please contact your local council or health department for information regarding the laws and recommendations for your area.

Is it OK to dump wash buckets and old dishwater in the yard?

Cleaning products are designed to be disposed down the drain. Septic tanks and sewage treatment plants do a great job at eliminating these substances from wastewater before reaching the environment. It is unlikely that a normal amount of dishwashing detergent or other cleaning products will harm grass, however the irrigation benefit of a small amount of dirty water may not be worth the risk.

If you choose to use manually saved grey water:

- Water different areas in your garden to avoid chemical build up in one particular area.
- Don't use on plants that produce food.
- Don't use water that has been used to wash nappies.
- Don't use grey water from the kitchen as this can be contaminated with grease and bacteria.
- Don't store grey water unless you have a properly installed grey water treatment system.



My friend hooked up his laundry outlet to a hose going to the yard, is this a good idea?

Connecting a hose directly to a washer is not always a good idea. Your friend could burn out his washer pump, especially if it is pumping up hill or the hose kinks. If the water is flowing downhill, water may siphon from the wash basin. Hot water from the washer could scald plants.

There are some engineered grey water systems available that can solve these problems. However, local plumbing codes should be investigated to make sure the practice is allowed. The cost and inconvenience of any grey water system must be weighed against the potential water savings.

Washwise

Visit <http://washwise.org.au> for more information on laundry care.



Improve your own Environment?

How can you improve your own environment?
What is the quality of the air you are breathing?
What is the quality of the water you are drinking?

Indoor Air Quality - ATMOSPHERE Air Purifier:

- Generally, people spend more than 90% of their time indoors. Environment Australia
- Indoor air pollution causes: asthma, lung cancer, sore throats, eye irritation, nausea, headaches and general feeling of discomfort. - CSIRO
- Polluted Air in the home and office is currently costing the nation \$12 Billion a year in medical cost and lost productivity. - CSIRO
- In Australia 14-16% of our children and 10-12% of adults now have asthma. The Asthma Foundation, Victoria
- Studies show that the air inside your home can be up to 10 times more contaminated than the air outside. US Environmental Protection Agency

Atmosphere Air Purifier helps to improve your indoor air quality as follow:

- Effectively remove 99.99% of air borne pollutant particles down to 0.009 microns (9 billionth of a metre)
- Reductions for air borne pollen, dust and tobacco smell.
- Reduces air borne bacteria, viruses, dust mites allergen, mould, fungi and asbestos.
- Odour reductions for smokes, pet odours and cooking smell.
- Reduce ozone by up to 90%
- Reduce formaldehyde by up to 70%
- Reduce toxins like dioxin and dibenzofurans by up to 75%
- Reduces air borne radon decay products



Drinking Water Quality - eSpring water purifier:

All municipally treated water has contaminants. Even if source water appears protected, human activities in the area, and the geological features surrounding the water, may cause it to be contaminated.

Contaminants may include naturally occurring, beneficial minerals such as magnesium and calcium, or it may contain potentially harmful substances, such as: Radon, Lead, Mercury, Pesticides, Industrial chemicals, VOC's (volatile organic compounds), Micro-organisms (bacteria and viruses), Particulates and Algae toxins.

eSpring helps to improve your drinking water quality as follow:

- Improves taste, odour, and clarity of water
- Does not remove beneficial minerals, such as calcium, magnesium, and fluoride
- Reduces particulates down to 0.2 microns (about 1/500th the diameter of human hair), including sediment, dirt, and scale.

Effectively removes:

- organic contaminants from water, including more than 135 contaminants such as volatile organic compounds (VOCs), pesticides, and trihalomethanes
- more than 13 disinfection by-products, e.g. chloroform.
- more than 30 pesticides and pesticide residues.
- parasites that can cause disease e.g. Cryptosporidium and Giardia
- vinyl chloride, Chloramine, and asbestos
- Microcystin LR, the most common algae toxin
- lead, mercury, radon and radon decay products

eSpring Ultraviolet Light

- destroys more than 99.99% of water borne disease-causing bacteria and viruses that may be in drinking water
- destroys Cryptosporidium

The eSpring Water Purifier is designed for use on municipally treated or potable well/bore water.

For more information, please refer to espring.com