



american cleaning institute®
for better living

For Better Living®

2011 Sustainability Report



Contents

Message from ACI President and CEO Ernie Rosenberg	1
ACI Principles for Sustainability	2
ACI: Supporting Good Health and Hygiene in Our Schools and Communities.	3
ACI Science and Research: Pathways to Product Stewardship	6
Summary: Cleaning Products Supply Chain – Sustainability Metrics Data.	9
Sustainability Snapshots – ACI Member Companies.	12

About this Report

This document is the American Cleaning Institute's first-ever public Sustainability Report. The report consists of three sections: a summary of ACI social sustainability outreach efforts and scientific and technical work detailing product and ingredient safety; a summary of the aggregated sustainability metrics data submitted by participating member companies; and member company sustainability snapshots.

The metrics included in this report cover environmental performance from 2007 to 2009.

If you have any questions about this Sustainability Report, please contact: Brian Sansoni, Vice President, Communication & Membership, ACI, at 202.662.2517 or bsansoni@cleaninginstitute.org.

ACI is located at 1331 L Street NW, Suite 650, Washington, DC 20005.
Phone: 202-347-2900 email: info@cleaninginstitute.org

About ACI

The American Cleaning Institute® (ACI - formerly The Soap and Detergent Association) is the Home of the U.S. Cleaning Products Industry® and represents the \$30 billion U.S. cleaning products market. ACI members include the formulators of soaps, detergents, and general cleaning products used in household, commercial, industrial and institutional settings; companies that supply ingredients and finished packaging for these products; and oleochemical producers. ACI (www.cleaninginstitute.org) and its members are dedicated to improving health and the quality of life through sustainable cleaning products and practices.

While reasonable efforts have been made to include reliable data and information in this Report, ACI cannot assume responsibility for the validity of all facts, data and materials contained in this Report, the consequences of their use, or any translation of the contents of this Report. The information contained in this Report was created and/or compiled by ACI and is offered solely to aid the reader. ACI and its member companies do not make any guarantees, representations or warranties, express or implied, with respect to the accuracy and completeness of the information contained herein and assume no responsibility for the use of this information. Neither do ACI nor its member companies assume any responsibility to amend, revise or update information contained herein based on information which becomes available subsequent to publication. The content included in the Member Company Sustainability Snapshots section of the Report was provided by individual member companies and does not necessarily represent the views of ACI.

This Report and all of its content are protected by applicable U.S. and international copyright laws. No one may copy, download, publish, modify, transmit, reproduce, create new works from, distribute, sell, loan or in any way exploit any of the material contained in this Report in whole or in part without the express authorization of ACI.

A Message from ACI President and CEO Ernie Rosenberg



Welcome to the first of many reports that highlight the cleaning product industry's sustainability story.

The American Cleaning Institute® (formerly The Soap and Detergent Association) represents the U.S. cleaning products industry: those who make the products and those who supply the ingredients and packaging.

This association (established in 1926) and our members have engaged in "social sustainability" efforts long before that terminology came into being.

Our founders created a Cleanliness Institute to teach the value of hygiene. The Institute published educational materials in cooperation with public and private organizations – including schools and health, social, and welfare agencies – to improve hygiene practices.

This outreach continues today, using online and digital resources to reach new audiences looking for useful information on the beneficial use of hygiene and cleaning products. Examples of that outreach are highlighted in this report.

A number of companies within our industry have been at the forefront of sustainability reporting during the past decade. Many more are beginning to talk about how sustainability is an important part of their daily business activities.

As the U.S. organization representing the cleaning product supply chain, ACI is beginning its reporting by showcasing how our industry is recording and reporting environmental metrics and contributing to human health, environmental quality and well-being.

Within this report, you will find aggregated environmental metrics data from companies that make up nearly three-quarters of our dues base. On behalf of ACI, Environmental Resources Management collected data targeting four specific endpoints: CO₂/Greenhouse Gas/Global Warming Emissions, Water Usage/Savings, Waste Reduction, and Energy Usage/Savings. The metrics data is related to U.S. cleaning product-related manufacturing, as ACI represents the formulators and ingredient suppliers of cleaning products.

The report also features snapshots of what a number of our member companies are accomplishing on the sustainability front throughout the year.

Sustainability is a process of continuous improvement, not a destination. The starting point for this report is not the starting point for the industry. ACI's members have been improving the health, environment, safety and quality of life aspects of their products for decades. ACI is taking its initial steps towards a thousand miles journey. We want to publicly display our progress and outline where we have challenges to address.

The industry ACI represents defines sustainability in this way: The ability to improve the quality of life for this and future generations, by creating products that promote hygiene and cleanliness, are environmentally sound, and are economically successful.

We look forward to receiving your feedback and suggestions in the months and years ahead.

A handwritten signature in black ink that reads "Ernie Rosenberg". The signature is fluid and cursive, written in a professional style.

Ernie Rosenberg
President & CEO
American Cleaning Institute

American Cleaning Institute® Principles for Sustainability



ACI SUSTAINABILITY DEFINITION: The ability to improve the quality of life for this and future generations, by creating products that promote hygiene and cleanliness, are environmentally sound, and are economically successful.

ACI SUSTAINABILITY MISSION: To benefit society and improve the quality of life through hygiene and cleanliness by driving sustainability improvements across our industry and throughout the supply chain.

Preamble – Principles for Sustainability

The members of the American Cleaning Institute are committed to the continuous enhancement of human health and the quality of life through the responsible formulation, production, sale and use of cleaning products and ingredients.

The members of the American Cleaning Institute will strive to meet the following commitments to advance human health and environmental quality, social well-being, and economic growth. ACI will support its members in meeting these commitments.

Human Health / Environmental Sustainability

- To only market products that have been shown to be safe for humans and the environment, through careful consideration of the potential health and environmental effects, exposures and releases that will be associated with their production, transportation, use and disposal.
- To promote transparent communication of safety, handling and environmental information across the chain of commerce.
- To support basic research to resolve uncertainties around human and environmental safety when they arise.
- To obey the spirit and intent of all national laws and regulations.
- To promote sustainable innovations that will help reduce the overall environmental impacts of our industry.

Social Sustainability

- To contribute to a better quality of life for our consumers, business partners, employees and the communities in which we operate.
- To develop products and ingredients that effectively deliver claimed benefits.
- To promote the safe use of our products with the public.
- To support society's efforts to enhance public health and well-being through improved hygiene and sanitation.
- To maintain a high level of product stewardship throughout the chain of commerce.
- To operate our manufacturing facilities with due regard to the health and safety of our employees, the communities in which we operate and the wider environment.

Economic Sustainability

- To contribute to value creation, including economic prosperity and continuity for the industry's shareholders, employees and communities.
- To add value for the consumer through continuous product innovations.

ACI: Supporting Good Health and Hygiene in Our Schools and Communities

Sharing information on the health benefits of proper hygiene and cleaning has been a hallmark of our organization since our founding.

In 1927, The Cleanliness Institute was created by the then Association of American Soap and Glycerine Producers to teach the value of hygiene. The Institute published and disseminated educational materials in cooperation with public and private organizations, including schools and health, social, and welfare agencies, to improve hygiene practices.

That spirit of education and outreach continues today at the American Cleaning Institute® (ACI).



Highlighting Hand Hygiene

Promoting hand hygiene education in middle schools is one of the main goals of "Healthy Schools, Healthy People: It's a SNAP," a joint project of ACI and the Centers for Disease Control and Prevention (CDC). Since 2002, SNAP – the School Network for Absenteeism Prevention – has honored the Top Classrooms for their efforts to encourage handwashing during the school day and in their local communities.

U.S. Senator Jon Tester (D-Montana) meets with Forsyth (MT) High School students Shannon Seleg (center) and McKenzie Sargent, recipients of SNAP's 2010 Top Classroom Award.

Honoring Those Who Keep Our Schools Clean

Encouraging clean and healthy school environments is a priority for ACI and its member companies. ACI partners with the National Education Association Health Information Network to honor school custodians who demonstrate outstanding leadership in school cleanliness. The [National C.L.E.A.N.® Award](#) recognizes the contributions that custodians make to public health in their schools, communities and profession.

Honoring those who keep our schools clean: (From left): 2010 C.L.E.A.N.® Award winner Patrick Lortie; Nancy Bock, ACI VP of Consumer Education; Jerry Newberry, Executive Director, NEA Health Information Network; and Roxanne Dove, Director, NEA Education Support Professional Quality.



Teaching Clean Across America

The annual [Clean Homes...Safe and Healthy Families Award](#) honors members of the National Extension Association of Family and Consumer Sciences (NEAFCS) for innovative educational programs that help families and individuals understand the link between clean and safe homes and good health.

Award recipients in 2010 were honored for increasing awareness of hand hygiene in their local schools and communities and for a project to clean and renovate an apartment used by a local senior citizens center:



2010 award winners Joan Vinette of Michigan (left) and Robin Eubank (right), with Mary Ann Lienhart Cross, NEAFCS Immediate Past President.



ACI on SchoolTube: Outreach on In-school Hygiene

ACI launched a channel on SchoolTube, the nation's largest K-12 moderated video sharing website for educators and students. ACI's channel (www.schooltube.com/user/AmericanCleaningInstitute) features videos of students' in-school hygiene education programs and instructional videos that can be shared and used by education professionals.

Partnering to Help Fight the Flu

Thousands of extension service professionals mobilized to educate the public about the H1N1 pandemic, thanks to a partnership between ACI and the American Association of Family and Consumer Sciences (www.aafcs.org). This initiative gained incredible momentum to help individuals, families and communities prepare for cold and flu season now and in the years to come.

TIS
Taking It To
The Streets
Touching Lives... Through YOU!

CONTACT US FOR MORE INFORMATION:

Marilyn Swierk, CFCS
Msinnovate@aaci.com

Susan Turgeson, CFCS
susan_turgeson@msd.k12.wi.us

TIS Leadership Team

Marilyn Swierk, FL
Board Liaison
National President 2009-10

Marlene Lobberecht, TX
Intelligence, Bus. Dev. Dir.
Ret. FCS educator

Michelle J. Garwood, NE
FCS Teacher

Jane Hinrichsen, MN
FCS educator

Susan Turgeson, WI
FCS Instructor/CCCLA Adviser
2009 AAFCS National Teacher of the Year

Kathy Vik, AK
FCS Instructor/AK FCCLA State Adviser

Sharon Baillie, PA
FCS educator

Kim Archer, VA
FCS educator

Nancy Bock, DC
FCS/Business and Industry

ACTION AREAS
2009-10: H1N1
2010-11: Obesity

Our AAFCS information link:
<http://www.aafcs.org/tis>



“Cleaning For A Reason”

ACI is a proud partner of the Cleaning For A Reason Foundation (www.cleaningforareason.org) and their work to sustain cleanliness for women undergoing treatment for cancer. A clean environment is especially important to women with cancer. That is why ACI has partnered with this group to help educate the public about the vital link between health and hygiene.

At its 2010 Industry Convention, ACI launched its first-ever charity golf tournament to benefit Cleaning For A Reason. The event raised more than \$10,000 for the Foundation.



ACI Takes a Walk – To Fight Asthma

ACI was a proud sponsor of BreatheWalk 2010, a fundraising event organized by Breathe DC at the United Medical Center Foundation. The event helped raise money for asthma education programs in the Washington, D.C. area. Year-round, ACI shares information on cleaning to control allergies and asthma with individuals and families.

Above: ACI team members joined Washington, D.C.-area community leaders for BreatheWalk 2010.



Easier Online Access to Better Living: www.cleaninginstitute.org

In June 2010, The Soap and Detergent Association changed its name, brand and website to better reflect how cleaning contributes to better living. The American Cleaning Institute's website, www.cleaninginstitute.org, features information on how cleaning products play an essential role in our daily lives. Cleaning product news, tips and information updates are also featured via ACI's social media channels: [Facebook](https://www.facebook.com/cleaninginstitute), [LinkedIn](https://www.linkedin.com/company/cleaninginstitute) and [Twitter](https://twitter.com/cleaninginstitute).

Getting a Grip on Good Hygiene

Every few years, ACI and the American Society for Microbiology (ASM) undertake an observational survey of handwashing habits in public restrooms. The 2010 results (available at www.cleaninginstitute.org/surveys) and the related media coverage allow ACI and ASM to reiterate the importance of good hand hygiene practices in public settings.



ACI Science and Research: Pathways to Product Stewardship

Since 1926, ACI has been committed to improving the lives of people through science, research, and applied technology. In the pages that follow, you'll see just a few examples of how ACI showcases research and information on the human health and environmental safety of cleaning products and their ingredients.



iSTREEM: Promoting Product Stewardship

Companies that make or use chemicals have a new tool at their fingertips to help forecast chemical concentrations in U.S. waterways. ACI's iSTREEM™ is a web-based computer model which predicts the concentration of a chemical used in "down-the-drain" products at the discharge of more than 12,000 wastewater treatment plants, at the intake of downstream municipal drinking water treatment facilities, and in approximately 28,000 river reaches covering over 200,000 river miles across the continental United States.

iSTREEM is a valuable new tool to promote product stewardship and regulatory compliance for chemical suppliers and manufacturers of formulated products of all sizes. To find out more about iSTREEM, visit ACIScience.org.

ACIScience.org: Research at Your Fingertips

ACIScience.org is part of the cleaning product industry's long-standing commitment to product stewardship. The website was created to share ACI's vast portfolio of research on the safety and benefits of cleaning products and their ingredients with interested stakeholders.

Visitors to the site can find information on the human health and environmental safety of cleaning products and their ingredients, a compendium of information compiled through ACI's High Production Volume (HPV) Chemical Consortia, and a glossary of terminology commonly used in the cleaning products industry, among much more information.



Demonstrating safety in the environment

Research co-authored and/or supported by ACI demonstrates that detergents and cleaning products are a negligible source of fatty alcohols in the environment, which further supports the safety of their current uses in cleaning products. Researchers can find the following reports online: [Fatty alcohols in the Terrestrial Environment](#) (available at [ACIScience.org](#)) and ["What contribution do detergent fatty alcohols make to sewage discharges and the marine environment?"](#) which was published in the peer-reviewed *Journal of Environmental Monitoring*.



What contribution do detergent fatty alcohols make to sewage discharges and the marine environment? - Journal of Environmental Monitoring (RSC Publishing)

RSC Publishing

Journal of Environmental Monitoring Issue 10, 2010

What contribution do detergent fatty alcohols make to sewage discharges and the marine environment?

Stephen M. Mulge, William Meier-Augenstein, Charles Eastforth and Paul Dallas
J. Environ. Monit. 2010, **12**, 1846-1855
DOI: 10.1039/C0EM00079E Paper

Please choose one of the options provided in the log in section to gain access to this content:

Abstract Cited by

Abstract

To investigate the potential sources of fatty alcohols arriving at a WWTP and entering the receiving waters, a study was conducted at Tisbury North Wales using compound specific stable isotope mass spectrometry (^{13}C and ^{14}C). Samples were collected from soils, marine sediments, detergents used in the treatment and in the WWTP. Total fatty alcohol concentrations decreased in the liquid phases through the treatment works with the majority of the compounds accumulating in the sludge (biosolids). Natural plant based detergents have $\delta^{13}\text{C}$ values between -25 and -30‰ while petroleum-based detergents occupy a range between -25 and -30‰ . The corresponding $\delta^{14}\text{C}$ values are -25‰ for natural sourced materials and -10‰ for oil based detergents which enable these two sources to be separated. The effluent to the WWTP contained fatty alcohols which originated mainly from faecal sources and natural surfactants ($\sim 75\%$) with a smaller amount potentially derived from petroleum-based surfactants ($\sim 25\%$). The effluents from the WWTP contained mainly short chain compounds with a chain length less than C_{12} . Their $\delta^{13}\text{C}$ stable isotope signature was different to the other potential sources examined and suggests bacterial synthesis during the treatment processes. The sludge had relatively high concentrations of fatty alcohols as would be expected from their low water solubility. The stable isotopic signatures were consistent with a mixture of faecal and detergent sources. The sludge in this area is routinely spread on agricultural land as a fertilizer and may find its way back into the sea via land runoff. On the basis of the mean discharge rates and the mean C_{12} concentration in the effluent, the WWTP would contribute $\sim 100 \text{ g day}^{-1}$ to the receiving waters. The marine sediment samples had short chain fatty alcohols that are typical of marine production and with stable isotope values that indicate exclusive marine production for the C_{12} potentially mixed with terrestrial sources for the C_{10} and C_{11} compounds. Therefore, the fatty alcohols in the marine sediments are not the same as those that were discharged in the liquid effluent and these fatty alcohols were not the ones that entered the works through the influent but were synthesized or recycled within the works.

Log In (Subscriber Access)
Log in via Athens or your home institution
Log in with your subscriber username and password
Username:
Password:
Ask your librarian to arrange site-wide access.

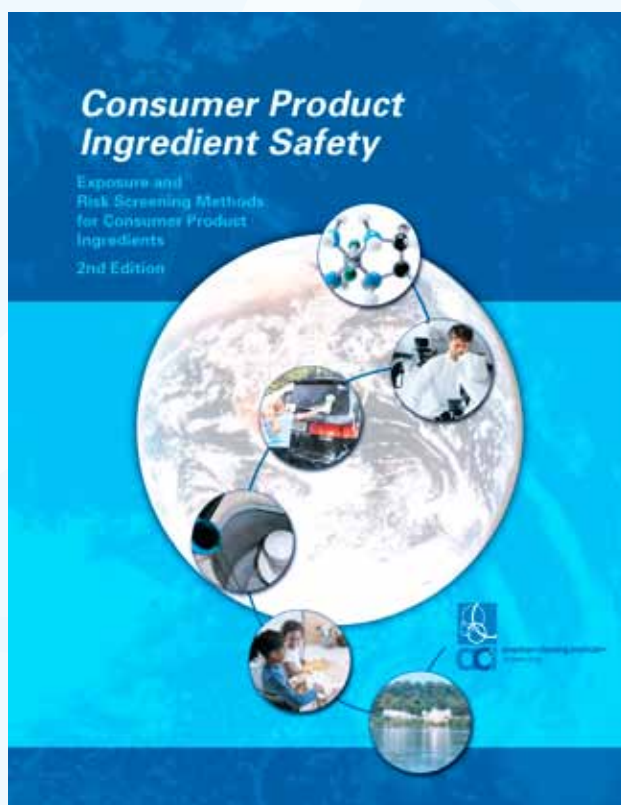
Download
PDF
Full HTML
Buy PDF (£30)

Download Citation
CiteSpace

Supplementary Info
Photographs of sampling sites PDF (1759K)

Share & Recommend
Email this page
Bookmark
Add to Favourites

<http://pubs.rsc.org/en/Content/Articlelanding/2010/EN/C0EM00079E/1/3/2011114155AM>



Demonstrating Ingredient Safety

[Consumer Product Ingredient Safety: Exposure and Risk Screening Methods for Consumer Product Ingredients](#) provides an updated compendium of information and tools supporting the industry's stewardship efforts on cleaning and personal care product ingredients. This second edition of a 2004 report provides details on exposure assessment methodology as well as finalized case studies and the final manuscripts of the peer-reviewed articles as appendixes. The publication serves as a guide for companies and regulators engaged in stewardship of consumer products with repeated human exposures or environmental releases, especially via down-the-drain disposal.

The report is available at no cost on the [ACIScience.org](#) website.

USE OF READ-ACROSS OF EXISTING HAZARD DATA TO FULFILL HPV CHEMICAL PROGRAM REQUIREMENTS WITHOUT THE NEED FOR NEW ANIMAL TESTING

F. Kruszewski, P. DeLeo, K. Stanton, R. Sedlak,
The Soap and Detergent Association, Washington, D.C., USA

ABSTRACT

The Soap and Detergent Association (SDA) is a leading manager of chemical consortia fulfilling commitments to the voluntary U.S. Environmental Protection Agency (EPA) high production volume (HPV) chemical programs. SDA's commitment to comply and make publicly available a baseline set of health and environmental effects data covers 291 chemicals sponsored by 62 companies within ten chemical categories represented by these consortia include: aliphatic acids, alcohols, aldehydes, alkyl sulfates, amine oxides, glycerides, hydrocarbons, LAS/ABS, long chain alcohols, methyl esters, and triclosan. This has allowed the member chemicals without data. SDA has found read-across to be especially useful in assigning data for ecotoxicity and mammalian health endpoints to many chemicals among its 143 completed chemical commitments to date. Consequently, the use of read-across has eliminated the need for new animal testing while allowing SDA consortia to meet those data requirements. The use of thousands of test animals has been avoided. SDA anticipates additional reductions in animal testing by utilizing read-across in ongoing efforts to complete the data sets for the balance of its sponsored chemicals.

INTRODUCTION

SDA is a U.S. National Trade Association representing the formulators of household, institutional and industrial cleaning products and the manufacturers of the ingredients and finished packaging used to bring these products to the marketplace (SDA 2009a). Since 1999 SDA has managed chemical consortia fulfilling commitments to the voluntary U.S. Environmental Protection Agency (EPA) and International Council of Chemical Associations (ICCA) high production volume (HPV) chemical programs (SDA 2008, US EPA 2008, ICCA 2009). These programs are focused efforts to provide assessments of baseline sets of hazard data for chemicals that are manufactured or imported in amounts of one million pounds or greater per year, and to make these assessments publicly available. The benefits of these programs include providing a sound basis for future industry and government chemical risk assessments, eliminating duplicative testing and assessment efforts, minimizing costs for the industry, and reducing the numbers of animals for testing.

Table 1 - SIDS Endpoints

An initiative of the chemical industry working through the ICCA in partnership with the OECD HPV program has led to the global harmonization of baseline hazard data sets and their initial assessment. Here sponsoring countries along with industry partners cooperatively select chemicals and collect a set of baseline hazard and exposure data for them to be used in the Screening Information Data Set (SIDS) (OECD 2009a). The SIDS dossier provides the basis for the initial hazard assessment comprising the SIDS include those in Table 1. The SIDS dossier provides the basis for the initial hazard assessment of the chemical. The sponsoring country will prepare this information as a SIDS Initial Assessment Report (SIAR) for submission to OECD who will subsequently review it for its completeness and finalization at a SIDS Initial Assessment Meeting (SIAM) (ICCA 2009). It is noteworthy that the requirements of the EPA HPV program can be met through the OECD SIDS program. This report will consider only the eight SIDS endpoints that rely on animal testing.

Table 1 - Baseline Data for HPV Programs - Endpoints from OECD Screening Information Data Sets (SIDS)

Physico-chemical Properties	ENDPOINT **
Environmental Fate	Boiling Point
	Water Solubility
	Partition Coefficient
	Vapor Pressure
Environmental Effects	Photooxidation
	Toxicity
	Biodegradation
Mammalian Toxicity	Acute Toxicity to Fish
	Acute Toxicity to Aquatic Invertebrates
	Acute Toxicity to Aquatic Plants
	Acute Toxicity
	Reproductive Toxicity
Developmental Effects	Developmental Effects
	Developmental Effects
	Mammalian Mutagenicity

* SIDS endpoints are accepted by both ICCA and US EPA HPV programs.
** SIDS endpoints can then be fulfilled by different specified test protocols.
*** Read-across was used in data sets by SDA managed HPV consortia to replace new animal testing, as reported here

Table 2 - Status of Sponsored Chemical Categories within the SDA HPV Chemical Program

Category	Program	Number of Chemicals	No. of Robust Summaries *	Number of New Studies Conducted	Completion Status
Aluminum silicates *	US EPA	17	125	0	Final to EPA April 2008
Alkyl sulfates **	ICCA	61	>1300	0	Finished / SIAM October 2007
Amine oxides *	ICCA	15	180	0	Finished / SIAM April 2006
Hydrocarbons *	ICCA	10	125	1 vapor pressure test	Final to EPA April 2008
LAS/ABS **	US EPA	9	192	0	Finished / SIAM April 2006
Long chain alcohols *	ICCA	30	<1400	6 acute and chronic aquatic toxicity tests	Finished / SIAM April 2006
Triclosan	US EPA	1	102	1 vapor pressure test	Finished / May 2008
Aliphatic acids	ICCA	86	>1000	0	Spring 2010 SIAM (projected)
Glycerides	ICCA	31	275	0	Fall 2010 SIAM (projected)
Methyl esters	ICCA	33	>500	0	Fall 2010 SIAM (projected)

* True application of read-across to replace animal testing within this data set was enabled in this presentation

** Linear (LAS) and branched (ABS) aliphatic sulfates

*** A robust summary is a compilation of data in a ICDL format with sufficient information to permit an assessment of study quality

Table 3 - Extent of Read-Across Used as Replacement to Vertebrate Animal Testing in Fulfilling HPV Data Sets

Animal Test	Number of Tests Avoided by Using Read-Across per Category (No. of Chemicals)	Total Tests Avoided by Read-Across per Test Type	Total Tests Needed per Test Type	Percent of Tests Avoided by Read-Across
Aluminum silicates	17	125	125	100%
Alkyl sulfates (n)	61	>1300	>1300	>100%
Amine oxides (10)	15	180	180	100%
Hydrocarbons	10	125	125	100%
LAS/ABS (9)	9	192	192	100%
Long chain alcohols (30)	30	<1400	<1400	<100%
Triclosan	1	102	102	100%
Aliphatic acids	86	>1000	>1000	>100%
Glycerides	31	275	275	100%
Methyl esters	33	>500	>500	>100%

Sharing Chemical Data Avoids New Animal Testing

Data sharing within High Production Volume (HPV) Chemical consortia facilitates chemical assessments, saves resources, and reduces chemical testing based on both non-animal and animal methods, according to research presented by ACI.

During the 7th World Congress on Alternatives and the Use of Animals in Life Sciences in Rome, ACI described the application of "read-across," in which the data available for some substances satisfy the data needs for member chemicals without data.

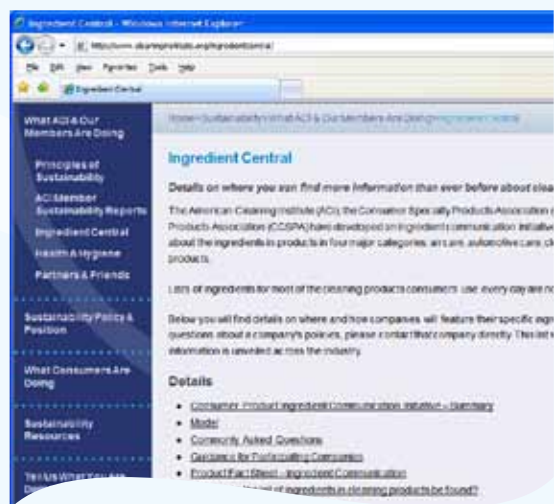
Overall, the use of read-across for the 142 sponsored chemicals considered in these submissions avoided 924 animal tests involving 112,000 test animals, while saving \$86 million in test costs.

The research poster is available on ACIscience.org.

Online Gateway to Cleaning Product Ingredient Information

ACI, with its partners in the U.S. and Canada, developed a uniform approach to communicating ingredients in cleaning products and three other product categories through its Consumer Product Ingredient Communication Initiative, which took effect on January 1, 2010.

Consumers can now find meaningful information about the ingredients used in cleaning products on product labels, company websites, or through other non-electronic means. ACI has developed a convenient way for consumers to access this information through its Ingredient Communication Central website (www.cleaninginstitute.org/ingredientcentral/), which provides links to company website ingredient listings along with other information about the Initiative.



Summary: Cleaning Products Supply Chain – Sustainability Metrics Data

Many ACI member companies provide sustainability reports and statements that describe corporate efforts to reduce their environmental footprint. In 2009, ACI and its members embarked on a pilot project to report on a common set of sustainability-related metrics relevant to both its consumer packaged goods and raw material supplier members.

As part of ACI's Sustainability Metrics Project, 20 member companies (over the course of two years) participated in a project to track environmental sustainability metrics. Tracking these metrics provides a baseline and indicators by which we can measure sustainability-related performance for ACI member operations in the United States associated with cleaning products.

These metrics categories include:

- Energy Use (electricity, steam, and on-site operations fuel)
- Greenhouse Gas Emissions (CO₂-equivalent)
- Water Use
- Waste Generation

The data reported by individual companies (20 companies over the course of the project, representing approximately 73% of ACI's dues base) was compared with U.S. production rates associated with cleaning products for each company to produce a normalized value, which represents performance per unit of production (i.e., gigajoules of electricity consumed per metric tons of production).

The data reflects cleaning product-related production of companies which formulate and produce the end products and companies that provide ingredients used in cleaning product formulation.

Data was submitted by the following number of companies for the three reporting years:

- 2009: 18 member companies
- 2008: 20 member companies
- 2007: 19 member companies

One company that participated in the pilot and supplied 2007-2008 data left ACI in 2010 and therefore did not provide 2009 data. A second company that participated in the pilot and supplied 2007-2008 data was unable to provide 2009 data due to internal resource constraints. One member company that participated beginning in 2010 did not provide data for 2007.

Member companies that submitted data for the analysis here within include:

AzkoNobel Surface Chemistry LLC
Arylescence, Inc.
Church & Dwight Company, Inc.
The Clorox Company
Cognis Corporation
Colgate-Palmolive Company
Croda, Inc.
The Dow Chemical Company
Ecolab Inc.
Emery Oleochemicals
Givaudan Fragrances Corporation
Henkel Consumer Goods, Inc.
Huntsman International LLC
Novozymes A/S
The Procter & Gamble Company
PQ Corporation
Sasol North America
SC Johnson & Son, Inc.
Seventh Generation
Shell Chemical LP



For each metric, we show the data normalized to ACI-related U.S. production. This is based on data for the metric and each member company's ACI-related production in the United States.

Normalized Data (per metric ton of ACI-related production) for All Participating Companies

Environmental Metric	Units	Baseline 2007	2008	2009	% Change ('07-'09)
Energy Use	Gigajoules (Gj)	6.94	6.28	5.72	-17.6%
GHG Emissions*	Kilograms CO ₂ -equivalent	486	410	363	-25%
Water Use	Cubic Meters (CM)	4.17	4.09	3.77	-9.6%
Waste Generation	Kilograms (Kg)	58.7	67.4	60.1	2.4%

*Emissions from electricity calculated using EPA's 2010 eGRID Spreadsheet

Energy

The majority of energy used in homes, commercial buildings, and industrial facilities is generated by burning fossil fuels, which emit GHGs that contribute to climate change.

Tracking energy use as an industry association allows participating companies to benchmark their data with the industry average and work toward continued improvement.

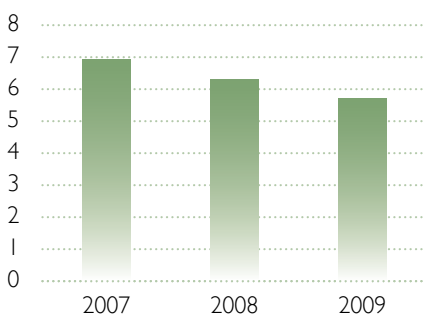
The energy metric tracks the energy amount used for ACI-related production activities. All energy sources within the company's site boundaries (i.e., under the company's operational control) are included in this measure. The energy metric data elements include:

- Electricity use, generated offsite
- Purchased steam use
- Coal use
- Fuel oil use
- Kerosene use
- Gasoline use
- Natural gas (liquid and gas form) use
- Propane (liquid and gas form) use
- Biogas/landfill gas used as fuel
- Other "green" energy sources (e.g., solar, wind, etc.)
- Energy use from distribution

Between 2007 and 2009, total energy use (in gigajoules), which includes electricity, steam and fuel used by stationary combustion sources, decreased by approximately 18% when normalized by production.

ENERGY USED

Gj/metric ton ACI-related production



Greenhouse Gas

Ever increasing global energy demand will lead to continued increases in GHG emissions. Significant GHG emission reductions are required to help decrease negative climate change impacts. Tracking GHG emissions as an industry association can help participating companies set reduction goals and reduce the overall environmental impact of ACI-related products.

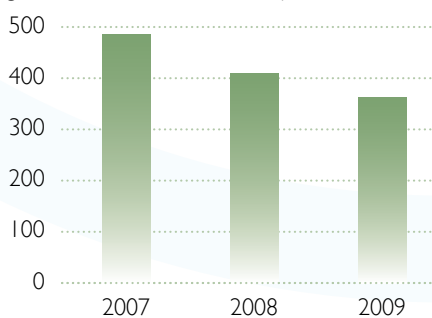
Member companies reported GHG emissions from all sources owned or controlled by the company, including:

- Indirect GHG emissions resulting from the off-site generation of purchased electricity, heat, or steam
- On-site generation of electricity, heat, or steam
- Other combustion processes
- Physical or chemical processing
- Venting
- Fugitive emissions

Between 2007 and 2009, the normalized rate of GHG emission decreased by approximately 25%, reflecting applied practices to reduce GHG emissions among member companies.

GREENHOUSE GAS EMISSIONS

kg CO₂e/metric ton ACI-related production



Water

Globally, water scarcity is a growing problem. Water is one of the key resources used across the full life cycle of ACI-related products, from the water used upstream for raw material production, to the manufacturing process, and finally by consumers when they use our products. The water metric tracks the water amount used (i.e., withdrawn from the environment) by each company and the water amount saved through conservation measures. All water sources, whether off site or on site, are included in this measure.

This metric includes process, landscaping, sanitary, cooling, and other waters used within the company's site boundaries (i.e., under the company's operational control). All water withdrawals were requested in the report.

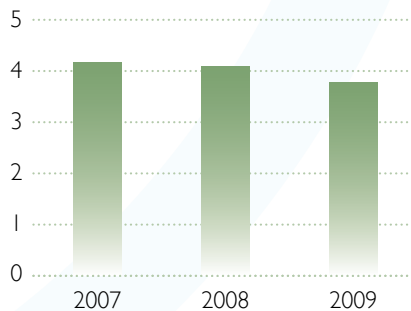
The water use metric data elements include:

- Water in product
- Purchased water
- Withdrawn water from wells
- Surface water at the plant (not from a municipality)
- Collected rain water
- Gray or reused water (e.g., water that does not meet drinking water standards that is brought on site for non-potable uses)
- Steam (purchased offsite and not returned to source as condensate)

Normalized water use decreased approximately 10% between 2007 and 2009.

WATER USE

cubic meters/metric ton ACI-related production



Waste

ACI member companies generate both hazardous and nonhazardous waste. Waste reduction measures help improve efficiency and alleviate pressure on natural resources.

The waste metric tracks the amount of solid waste generated, reused, recycled, and disposed of by each company.

The data elements for this metric (listed below) require companies to have a detailed understanding of the ultimate disposal, destruction, and recycling destination for each solid waste stream.

This metric includes all solid wastes, whether regulated as nonhazardous or hazardous, which are generated within the company's site boundaries (i.e., under the company's operational control).

Hazardous wastes include any waste that is defined as hazardous by national laws and regulations. In the absence of an applicable law or regulation, hazardous waste is any discarded hazardous chemical. Wastes that contain heavy metals – such as arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver – fall into the hazardous waste category if heavy metals can be leached out of the waste material under mildly corrosive conditions.

Nonhazardous wastes include waste oil (unless regulated as hazardous), process waste, general plant trash, construction debris, pallets, packaging wastes, off-specification products, and empty containers. Wet waste from wastewater treatment operations, adjusted to dry weight basis (by engineering estimate), is considered a nonhazardous waste (unless regulated as hazardous).

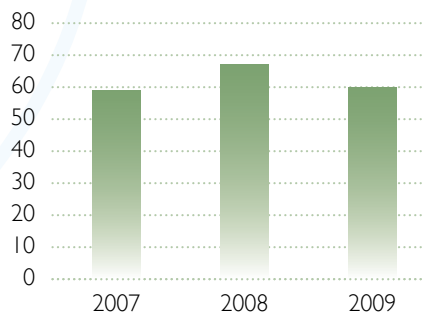
The solid waste metric data elements include:

- Waste generated, total
- Waste reused off site
- Waste recycled off site (e.g., metal, glass, cardboard, etc.)
- Waste landfilled off site
- Waste otherwise disposed of off-site (e.g., incineration)
- Waste disposed or treated on site

Waste generation, when normalized, decreased between 2008 and 2009, but increased by approximately 2% overall between 2007 and 2009. (This increase can be attributed largely to an increase in waste by a company whose overall waste generation is an order of magnitude higher than the other participating companies.)

SOLID WASTE GENERATED

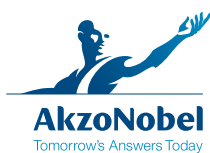
kg/metric ton ACI-related production



Sustainability Snapshots – ACI member companies

Throughout the year, ACI member companies are showcasing their contributions to sustainability and demonstrations of corporate social responsibility: more environmentally-friendly manufacturing processes, changes in raw material sourcing, development of more energy-efficient cleaning products, new products to enhance and improve public health, increased commitments to their neighbors and their communities.

The following pages offer snapshots from a number of ACI member companies that tell part of their sustainability story.



Sustainability

Integrated into every area of our business



AkzoNobel
Tomorrow's Answers Today

At AkzoNobel, Sustainability is at the heart of everything we do. We're committed to reducing our impact on the planet and delivering more sustainable products and solutions to our customers. That's why we have integrated sustainability into every area of our business - for the benefit of our clients, shareholders, employees, our communities, and the world around us. As a result, we have been ranked in the top two on the Dow Jones Sustainability Index (DJSI) for five years running.

Over the last few years, Sustainability has become firmly anchored in our business processes and it is fully integrated in our Strategy and Management Tools. We have defined special focus areas where we want to make a step change to become a true sustainability leader by:

- Creating value from eco-premium solutions;
- Managing carbon through the value chain;
- Creating a talent factory.

Eco-premium solutions

Eco-premium solutions help us create value for our business and for our customers. They provide top line growth opportunities because of their improved performance in areas such as raw material and energy use, manufacturing processes and product innovation.

The first-ever inventory of our Eco-premium portfolio in 2007 revealed that we had a turn-over from Eco-premium solutions of 18 percent. We have a target to increase the share of turnover from eco-premium solutions to at least 30 percent by 2015.

Examples of our most recent eco-premium technologies include:

- Dissolvine® GL - The strongest, safe and readily biodegradable chelating agent that is derived from a renewable bio-based raw material.
- New Hybrid Polymers - Based on renewable monomers, our hybrid polymers provide better eco properties and high performance.
- Berol® 609 - A safe, readily biodegradable alternative to nonylphenol ethoxylates (NPEs) typically used in industrial cleaners and detergents.

Carbon management through the value chain

The urgency of the climate change problem prompted AkzoNobel to establish a new Position Statement on Climate Change and Man-made Carbon Emissions and Carbon Policy in 2009, including new long-term targets and ambitions such as:

- Measure the cradle-to-gate carbon footprint of our key value chains in 2009 and update these measurements every 3 years.
- Reduce our cradle-to-gate carbon footprint by 10 percent per unit production between 2009 and 2015.

- Aim to control our absolute scope 1 & 2 greenhouse gas emissions (based on current business portfolio) at 2009 levels by off-setting organic growth by energy efficiency and fuel mix improvements.
- Strive for a paradigm shift in carbon management through continuous innovation, aiming to reduce cradle-to-gate carbon footprint by 20 to 25 percent per unit production between 2009 and 2020.
- Provide carbon-efficient solutions to customers contributing to the existing AkzoNobel objective of 30 percent annual sales from eco-premium solutions by 2015.

Talent factory

Growing our people is the way to grow our business for the long term. Therefore, we created our Talent Factory, which aims at mapping and developing the skills and competences of all employees in line with the new AkzoNobel Values.



Church & Dwight

Church & Dwight takes pride in the activities that sustain our great company and iconic brands. We support our sustainability objectives through product design and development activities as stated:

"We will delight our consumers with innovative product offerings while continually reducing the life-cycle & environmental footprint of our product portfolio."



Trademark adopted in 1867 for ARM & HAMMER® Baking Soda. The ARM & HAMMER® brand remains one of the most trusted trademarks in the United States today.



The #1 laundry additive that Church & Dwight has now combined with its ARM & HAMMER® brand laundry detergents to provide consumers with the benefits of both.



Spinbrush.

The #1 brand of battery-operated toothbrush in the U.S. in 2009, with innovative and reasonably priced products that offer consumers smart competitive choices on their rechargeable, sonic and manual toothbrush selections.



The #1 condom brand in the U.S. that has been in use for more than 80 years to prevent unwanted pregnancies and reduce the risk of sexually transmitted diseases. The Company continues to develop innovative product lines under the TROJAN® brand for enhanced pleasure and sexual health.



A leading value brand laundry detergent that has provided consumers with better than expected performance at a price they can afford throughout the current recession.



The #1 depilatory brand in the U.S. with innovative products for men, women and teens that address all of their hair removal needs.



The #1 brand in the home pregnancy and ovulation test kit category in which Church & Dwight continues to innovate to bring its consumers products that are designed to provide earlier and faster indications. The company also launched a FIRST RESPONSE® at-home fertility test in 2009.



The #1 brand of oral analgesics acquired in 2008 to expand the Company's personal care portfolio in the oral care category. In 2009, Church & Dwight added two new products: BABY ORAJEL® Cooling Cucumber Teething Gel and BABY ORAJEL® Tooth and Gum Cleanser.

Yesterday. Today. Tomorrow.



**Products
for Healthier
and More
Sustainable Living.**

Doing What's Right for Generations to Come.



Accelerating our Eco Progress



Trust is the foundation on which we have grown our business since Clorox was founded in 1913, and it's something we must continue to earn. That's why we have stepped up our efforts in corporate responsibility, focusing on five pillars that define our commitments: Performance, Products, People, Purpose and Planet.

Planet: Making environmental sustainability core to how we do business

Transforming to a More Sustainable Product Portfolio

With Burt's Bees® natural personal care, Green Works® natural cleaning and Brita® water filtration products, we're continuing to build our leadership in brands that have sustainability core to their purpose. But we are also reducing the footprint of other products in our portfolio through reformulations, package redesign and more sustainable line extensions.



In fact, Clorox is one of a few companies that has set a public goal to reduce the footprint of its product portfolio. This past year, we committed to making sustainability improvements to 25 percent of our portfolio by 2013, which involves improvements to about 300 products around the world. This is in addition to having made such improvements to one third of our portfolio between 2005 and 2009.

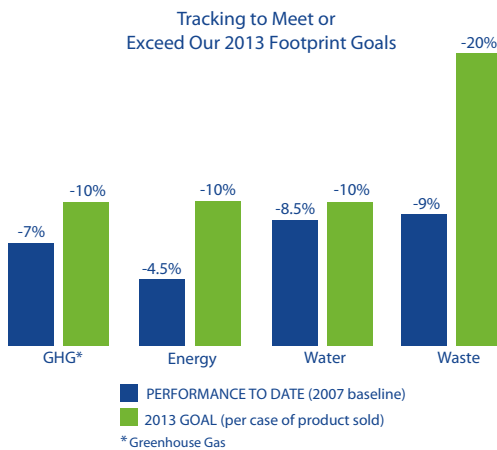
Reducing our Operational and Workplace Footprints

Environmental sustainability is now part of Clorox's Corporate Strategy, making it a top priority for the entire Clorox organization. The result: We are on track to meet or exceed all of our operational eco goals.

Initiatives such as lighting retrofits at 22 of our manufacturing plants, distribution facilities and major offices with energy efficient T5/T8 lighting and motion sensors have delivered reductions in energy use and greenhouse gas emissions.



Upgrades to our headquarters in Oakland, California have helped us earn the highest level of LEED certification for existing buildings – LEED Platinum-EB. Only 38 U.S. buildings have achieved this environmental distinction.



Recycling and waste reduction programs, many driven by our volunteer Eco Network, are helping reduce waste across the company. Our Burt's Bees® business is leading the way, having already achieved zero waste to landfill at their three facilities.



To learn more, visit www.CloroxCSR.com

Sustainability driven by innovation



**Cognis –
is now part of BASF**



Cognis believes that sustainability and innovation are inseparable. Not only because they represent two elements of Cognis' future-oriented drive to create better solutions, but also because of its conviction that thinking outside the box is essential to mastering today's – and tomorrow's – global challenges. The company aims to achieve a sensible balance between economic, ecological and social needs, without compromising the development opportunities of future generations.

With more than 160 years of experience in specialty chemistry based on natural, renewable raw materials, Cognis is well positioned to deliver sustainable performance. The company's understanding of sustainability covers four areas: products, company, people, and of course environment.

With its action plan "25 by 2012," Cognis set itself the goal of achieving improvements or reductions of 25 percent in key environmental performance indicators throughout the Cognis Group by 2012 compared to 2002 levels. The metrics relate to specific energy consumption, emissions and wastewater volumes.

And Cognis has set its sights high in terms of raw material procurement, safety, health and personnel. The company evaluates and reflects its development continuously.

Step by step to greater sustainability

Cognis is also constantly working to make its supply chain even more sustainable. As a specialty chemicals company with more than 6,500 products in its portfolio, the company must examine each process and product individually to determine how and on what stage of the value chain to concentrate efforts to achieve maximum sustainability.

Cognis also established a corporate Sustainability Policy which puts in writing ten dimensions of the company's approach to sustainability. To embed the principles of sustainability more securely in organizational structures and management processes, Cognis has set up a Sustainability Council which brings together all functions and strategic business units. All activities related to sustainability are initiated, evaluated and coordinated by the Council.

Cognis is now part of BASF. BASF – The Chemical Company – is recognized as a sustainability leader. Additional information on sustainability at BASF is available at: www.basf.com/sustainability.

Sustainability and Corporate Social Responsibility



Croda was founded 85 years ago and a responsible and ethical approach to business has always been part of our ethos. Corporate Social Responsibility is embedded in our business. We know our customers want to buy products from companies they trust, suppliers want to form business partnerships with companies they can rely on, and employees want to work for companies they respect.

Below are just a few examples of Croda's commitment to sustainability and corporate social responsibility. More information can be found on the CSR section of Croda's web site <http://www.croda.com>



Croda is committed to improving energy efficiency of our manufacturing processes and has set published targets for energy reduction for the last ten years. In the first 5-year plan (2001-2005) we improved our energy efficiency by 39%. We are now approaching the end of our second 5-year plan (2006-2010) which aims to improve our energy efficiency by a further 8%.

The overall energy reduction has been achieved through a series of large and small projects to reduce energy consumption. 8.3% of our energy is obtained from renewable or sustainable sources such as our wind turbine at the Hull, UK manufacturing plant and the use of biofuels for the generation of steam at sites in the UK, Netherlands, Germany, and Japan.

Knowledge regarding the carbon footprint of our products is necessary for the pursuit of cost effective carbon mitigation strategies needed to maintain business growth. During 2009, Croda Inc started a pilot study to measure the carbon

footprint of a large number of our US manufactured products. Croda measured the 'gate to gate' carbon footprint of 123 products. A second study is now underway to measure the 'cradle to gate' carbon footprint of these products, which includes the carbon footprint of the starting raw materials. This US based program is now being rolled out in Europe. Cradle to gate carbon footprint data will be of considerable interest to our customers, especially those who wish to make positive environmental claims for their finished products.

Croda is dedicated to developing products that are as natural as possible. In 2009, 71% of our raw materials came from renewable sources and we continue to strive to reduce our environmental impact in many other ways.

Our aim in 2010 has been to develop and implement a corporate purchasing policy that defines 'Responsible Sourcing', 'Renewable', 'Natural', and 'Sustainable' and sets out a behavioral framework for employees, suppliers, and other stakeholders to follow.



With the help of our suppliers, Croda will quantify the amount of palm oil or palm kernel oil required to produce our finished products. This information will be made available to our customers to allow them to use the 'Book and Claim' mechanism approved by the Roundtable for Sustainable Palm Oil (RSPO) to support the growth and use of Certified Sustainable Palm Oil (CSPO).

There are many CSR and sustainability challenges ahead as our industry evolves, but we are encouraged by the solid progress made by Croda around the world.

2015 Goals

- Double the percentage of sales to 10% for products which are advantaged by sustainable chemistry
- Achieve at least three breakthroughs that will significantly help solve world challenges
- Reduce our greenhouse gas intensity 2.5% per year
- Reduce our energy intensity 25%
- Publish product safety assessments for all products
- Achieve individual community acceptance ratings for 100% of Dow sites where we have a major presence
- Achieve on average a 75% improvement of key indicators for Environment, Health & Safety operating excellence from 2005 baseline

From cleaning ingredients to solar roof shingles, Dow combines the power of science and technology with the “Human Element” to deliver solutions for a more sustainable world. With over 96 percent of manufactured products enabled by chemistry, world challenges will ultimately be solved by companies like Dow, who collaborate with customers, industries, governments, academia and civil society to address the needs of our evolving planet.

Through our 2015 Sustainability Goals, we are committed to reducing our own impact on the environment and harnessing our innovation engine to help the rest of the world do the same. Because unlocking solutions to energy, climate change, water, food, housing, and health challenges is good for the planet, good for people – and good for business.

Innovations for Tomorrow

We contribute to the sustainability of society and our planet by developing innovative technologies for current and future markets.

- World’s largest bio-derived plastics facility under development in Brazil to convert sugar cane to polyethylene
- Zinc-Free Floor Polish solutions
- Highly Efficient polymeric dispersants for Fabric Care and Dish Care
- Bio-sourced ingredients for Hard Surface Cleaners

Partners for Change

We are leaders in advancing all aspects of sustainability, openly collaborating with customers, suppliers, communities, civil society and governments.

- Member of the World Business Council for Sustainable Development
- Project with Algenol Biofuels, Inc. to build pilot-scale algae-based biorefinery to convert CO₂ to ethanol
- Project with Alstom to design advanced amine CO₂ capture pilot plant in West Virginia
- Board member of pre-certifier CleanGredients for products applicable under US EPA’s Design for Environment label



Smart Solutions for Today

Our technologies enable our customers, and their customers, to develop more sustainable products and services.

- Low Phosphate Auto Dishwash Detergent Technologies that enable effective concentrated laundry detergents without phosphates or NPE’s
- Dow TRITON™ Surfactants are CleanGredients certified to be used in U.S. EPA’s Design for Environment-certified products
- Dow Specialty Glycol Ethers enable Hard Surface Care formulations that meet California Air Resource Board (CARB) low VOC regulations

Responsible Operations

Our infrastructure has a positive impact on our company, our communities and ourselves; our operations are a model for others, wherever we operate.

- Since 1994, we have reduced our own greenhouse gas emissions more than 25 percent, exceeding Kyoto

Protocol targets

- Over 300 Product Safety Assessments posted on our website, with more to come
- Terneuzen, Netherlands site re-uses municipal household waste water to save water and energy
- Dow’s insulation products in service avert more than six times our own CO₂ emissions from operations on an annual basis.

Recognitions

- Won seven U.S. Presidential Green Chemistry Challenge Awards – more than any other company
- Named to the Dow Jones Sustainable World Index for the 10th time

Helping keep people safe and healthy is a critical part of preserving the quality of life on our planet — and at Ecolab, it's what we do. We are the global leader in cleaning, food safety and health protection, and we take our responsibility seriously. We know that future generations depend on our ability to find innovative solutions to the changing needs of an evolving world.

That's why we consider the total impact of our products and design them to conserve water and energy and reduce waste. We work with our customers as a partner, ensuring they get the best results and helping them optimize their environmental impact. We focus on doing what matters — Everywhere It Matters.

Sustainability at Ecolab

26	Ecolab's ranking on Newsweek's Greenest Companies in America list
649	Tons of material kept out of landfills by reuse and recycling programs at our plants
137,000	Gallons of water saved by a typical on-premise laundry customer
186,000	Number of drums recycled by our customers through our drum recycling program
4.3 million	Fewer miles driven by our U.S. fleet
7.5	Percent reduction in U.S. greenhouse gas emissions
\$7.8 million	Contributions to our communities
\$86 million	Investment in Research & Development
\$500 million	Spending covered by our Ethical Sourcing Standards

Please visit www.ecolab.com/CompanyProfile/Sustainability for more information.

Responsibility and Sustainability



Evonik is the creative industrial Group from Germany. Today we have a presence in more than one hundred countries around the world. We take a global approach to implementing our ideas for the future, in collaboration with our partners. Our wide-ranging activities are geared to soundly based growth. As a corporation, our goal is to achieve a sustainable business performance as a basis for employment. That is why we focus on practical responses to the major global challenges of the 21st century. These include protecting the climate and the environment. Energy efficiency, nutrition, and health are other areas that need to be addressed in the face of global population growth and demographic change.

Realists are aware that industry is a vital partner for widespread implementation of sustainable solutions. Without industry – without its innovative capability, its creativity, its research and development – we cannot integrate sustainability into people's daily lives. Evonik does not simply play a role in solving global challenges: We are a force driving development and discovery.

Our success in lithium-ion battery technology is just one example. Through this technology our company is taking a lead in preparing the road for electric vehicles that facilitate exhaust-free mobility.

In a world dominated by constant change, Evonik believes that it is important to combine new developments with traditional values: Corporate responsibility, credibility, and reliability therefore guide our work.

Sustainability is essential for lasting business success. Our commitment to sustainability therefore takes a wide range of different forms in different places. Our amino acids, for example, make an important contribution to supplying protein for the world's population.

We are also building Europe's most advanced hard-coal power plant and creating a basis for community living at all stages of life through modern multi-generational housing concepts. In addition, Evonik has a special team dedicated to ensuring fair business practices and the organizational structures required to generate ideas for innovations.

Most importantly: our aspirations are boundless.

We put corporate responsibility into practice by:

- Responding to internal and external stakeholders' expectations of how we should contribute to the sustainable development of society
- Developing answers to tomorrow's challenges and to megatrends of relevance for sustainability and in this way support the attainment of our corporate objectives

<http://corporate.evonik.de/sites/dc/Downloadcenter/Evonik/Corporate/en/Company/Responsibility/evonik-industries-corporate-responsibility.pdf>

<http://corporate.evonik.de/en/investor-relations/publications/cr-report/pages/default.aspx>

Enhancing Our Commitment to a Sustainable Future



FMC Corporation, a chemical company with a 126-year history of innovation, believes our future depends on operating sustainable businesses that contribute to our global environmental quality. To us, this means developing market-driven products and technologies that protect our planet's environment and reduce energy consumption while improving our own manufacturing operations to protect our employees and the local communities in which we operate.

We have reduced industrial wastes by 50 percent, greenhouse gas emissions by 7 percent and accident rates by 73 percent from our manufacturing sites worldwide since 2000. In the United States, we have reduced U.S. Environmental Protection Agency-designated priority chemicals in releases and wastes by 65 percent and 93 percent respectively since 2000. Working with local communities and government agencies, FMC has returned nonproductive brownfield sites back to active uses, creating thousands of new jobs and alleviating environmental hazards.

In developing countries, FMC is a source of both income and jobs by helping establish environmentally sustainable seaweed farms that supply our business. We have contributed to the world's food supply by creating products that actually reduce chemical inputs while increasing crop yields. We also are reducing incidents of food-borne illness through our line of halogen-free disinfectants and sanitizers used to safeguard food products, packaging and food processing facilities.

In addition to waste reduction, sustainable farming and increased food safety measures, our range of new green chemistries includes lithium used to power hybrid and electric cars and soda ash used in the production of solar panel glass. We have commercialized new in situ remediation chemistry to quickly bring sites with contaminated soil back to sustainable use and reduce landfill burdens. We are developing products and technologies that cost-effectively remove critical air emissions, such as nitrogen and sulfur oxides, and mercury from fossil fuel sources as well as safer and more environmentally friendly chemistries to improve wastewater disinfection and oil and gas production. Our natural, sustainable biopolymers are replacements for petroleum derivatives across a wide range of consumer-packaged goods. New applications of our specialty chemistries have promise for reducing energy consumption by extending the life of roads, runways, dams and bridges.

FMC is committed to technological innovation that reinvents the way we produce our traditional chemistries. Three of every four dollars we spend on research is for new sustainable applications, such as the next generation of lithium power; or making our operations greener, such as converting waste methane to energy use. We believe it is incumbent upon us to continually look for ways that we can sustainably manage our future, safely steward our products and contribute to a greener globe.

Pierre Brondeau
President and CEO

GOJO Industries, Inc. Sustainability Profile



GOJO is a market leader in occupational skincare and hand hygiene, serving global professional markets in healthcare, foodservice, transportation, education, government, office buildings and others. GOJO was founded in 1946 with the innovation of the first one-step heavy duty hand cleaner; providing a safe, skin-friendly alternative to the harsh and carcinogenic solvents that workers had been using to clean hands in the rubber factories of Akron, Ohio. The first-of-its-kind dispenser; introduced in 1952, included recycled components and was developed solely to reduce product waste. Founders Goldie and Jerry Lippman instilled a culture of practicality, resourcefulness, perseverance, compassion and ongoing learning that persists today at the family-owned company – a legacy now embodied in an explicit commitment to social, environmental and economic sustainability. In 2010, GOJO declared ambitious long-range sustainability goals for reductions in water usage, solid waste and greenhouse gases, while striving to bring well being to one billion people every day by 2020.

GOJO is innovating sustainable solutions and demonstrating sustainability leadership in many ways. The company launched the world's first portfolio of green certified hand hygiene solutions, including GOJO Green Certified hand soaps and PURELL Green Certified Instant Hand Sanitizer. In the process, GOJO helped set the industry standard for sustainable skincare. GOJO is a member of the USGBC and was an advocate for the inclusion of a hand hygiene requirement within LEED-EBOM (Existing Buildings: Operations & Maintenance) in 2008.

A recent advancement in sustainability is GOJO SMART FLEX™ technology, the company's lightweight, recyclable PET refill bottle. Made with 30 percent less material, this new sustainable packaging innovation will yield a savings of over 250 tons of plastic per year.

Through SWOWSM, its Sustainable Ways of Working strategy, GOJO focuses on safeguarding resources and advancing public health for future generations. Significant achievements have already been made in waste reduction, recycling and employee well being, all elements of a more sustainable work environment. One example of an innovative SWOW initiative is the Plastics to Playgrounds program, a partnership with a local toy manufacturer through which GOJO has diverted more than 50% of its solid waste from landfills while simultaneously improving the lives of children.

Driven by the GOJO Purpose, "Saving Lives and Making Life Better Through Well-Being Solutions," the company advances the role that hand hygiene plays as a fundamental component of social sustainability. GOJO routinely sponsors scientific research to improve quality of life and reduce risks to well being. The company continues its decades-old focus to drive results in social sustainability through products and programs that improve hand hygiene compliance and reduce healthcare-associated infections (HAI). In addition, the company is leading the industry in elimination of the public health risk posed by bulk-refillable soap dispensers which are subject to high levels of microbial contamination. GOJO is committed to creating awareness of the issue and promoting conversion to recyclable factory sealed packaging as a healthier alternative.

With its emphasis on innovation and continuous learning, GOJO is an industry thought leader; committed to advancing social, environmental and economic sustainability. It's a company that is passionate about creating a healthy world by delivering solutions that positively impact people, places and the environment.

For more information on the role of Sustainability at GOJO, please explore our website:

www.gojo.com/sustainability



Sustainability Highlights



At Henkel, sustainability is one of the company's core values that support our vision as a global leader in brands and technologies. Henkel has 5-year sustainability targets aiming at significant reductions in greenhouse gas emissions, energy and water consumptions, and waste disposal. In addition to those environmental measures, Henkel is committed to safety and health, and social progress. We engage in eco-innovation for our products and supply chains, build sustainability partnerships, enhance our people at workplaces and support local communities worldwide. As a result of Henkel's focus on sustainability, we are on track to achieve our 5-year targets by 2012 (refer to Henkel Sustainability Reports for details).



Our laundry and home care products combine the premium performance of our brands with sustainability. The Purex Complete 3-in-1 Laundry Sheets have the 10 times concentrated detergent formula, and each sheet contains all of the detergent, softener and anti-static needed for one wash cycle and the following dryer cycle. The low weight and volume dramatically reduce the carbon dioxide emissions associated with transport, and the laundry sheet refill pouch generates significantly less packaging waste.

The Purex Natural Elements laundry detergent and Renuzit air freshener demonstrate our sustainability efforts on chemical ingredients. More than 95% of the ingredients in those product formulations are naturally sourced and biodegradable. We have actively participated in the Round Table for Sustainable Palm Oil (RSPO). Henkel was the first company to purchase certificates for sustainable palm kernel oil for our Terra Activ line of laundry detergents and household cleaners.



For laundry detergents, most of the energy consumption and greenhouse gases are generated by the consumers' use of washers and dryers at home. Purex Cold Water and Persil ActicPower laundry detergents were specially designed to help address this issue by delivering competitive cleaning performance in "cold water" washing temperatures (e.g., 60-75F). Those products empower consumers to lower their energy consumption and cost of living.



We contribute to supply chain eco-efficiency by improving our packaging and manufacturing technologies and practices. We continuously optimize the logistics and efficiencies of our purchasing, warehouses, shipping fleets and non-production facilities around the world.

We commit to our employees and social progress beyond our business interests. Our employees' health, safety and career training are an integral part of Henkel's corporate culture and responsibility. Through many education, charity, and service programs worldwide, Henkel supports local communities and contribute towards the UN Millennium Development Goals by our Social Engagement Initiative "Henkel Smile".

We are highly committed to sustainability partnerships worldwide. For example, Henkel is one of the initial founders of the Sustainability Consortium for standard measurement and reporting systems. Aiming for increasing the performance of all value chain elements by 50% and decreasing the associated footprint by 50%, Henkel is calling for collective actions to boost the sustainability of our business activities by a factor of 3. We will work together with our partners in every stage of product lifecycles toward this goal, making sustainable consumption a reality within a reasonable time-frame, generating true value for the industry, the society, and our planet.

Our sustainability efforts have been well recognized by our business partners and the public. Henkel is the recipient of Wal-Mart Sustainability Awards in 2009 and 2010. For the fourth time in a row, Henkel has been confirmed as the leader in the Non-Durable Household Products market sector of the World and European Dow-Jones Sustainability Indexes.



Surfactants from Renewable Resources

HUNTSMAN

Enriching lives through innovation



Huntsman Corporation is committed to sustainable development for the customers and markets we serve, the regions we operate in and for the future of the planet. Sustainability is key to our forward-looking corporate strategy for Environmental, Health and Safety (EHS) stewardship, known as our "20:20 Vision". Each Huntsman business division also has its own innovation programs in place developing new products and exploring scientific and commercial challenges that require sustainable solutions.

The Performance Products division of Huntsman Corporation has created several technologies for producing surfactants based on renewable resources. These are useful in detergent and personal care products where good cleaning performance, excellent emulsification properties and low eco-toxicity are essential. Renewably sourced surfactants can be made from a variety of feedstocks including soya, corn, canola and algae oil.

- Glycerin Mono Oleate Ethoxylates (GMOE), based on vegetable oil and glycerin, can be used in personal care applications as a green emulsifier for creams and lotions
- Alkyl Polyglycerides (APGS) are mild nonionic surfactants based on seed oils and glycerin
- Methyl Ester Ethoxylates (MEE) based on economical biodiesel feedstocks are used in high performance HE liquid detergents
- Vegetable Oil Ethoxylates (VOE) can be prepared from any natural fat or oil including algae.

Based on natural, sustainable feedstocks, this surfactant range provides a number of benefits in cleaning applications. The starting materials are often more economical than detergent range alcohols, offering potential cost savings. They are also excellent primary surfactants for textile and hard surface cleaning applications where low foam is desired.

Huntsman Corporation Business Offices

10003 Woodloch Forest Dr.
The Woodlands, TX 77380
(281) 719-6000

Huntsman Advanced Technology Center Technical Service

8600 Gosling Rd.
The Woodlands, TX 77381
(281) 719-7780

Samples 1-800-662-0924

Copyright © 2009 Huntsman Corporation or an affiliate thereof. All rights reserved.

SURFONIC® is a registered trademark of Huntsman Corporation or an affiliate thereof in one or more, but not all countries.

Clean clothes, cleaner planet

Novozymes strives to lower the environmental impact of doing laundry



Novozymes Household Care is working to ensure the right balance between better business, cleaner environment, and better lives. Together with our Household Care customers, we seek to drive the world to make sustainable choices by enabling high-performance cleaning solutions that lower the environmental impact of laundering clothes.

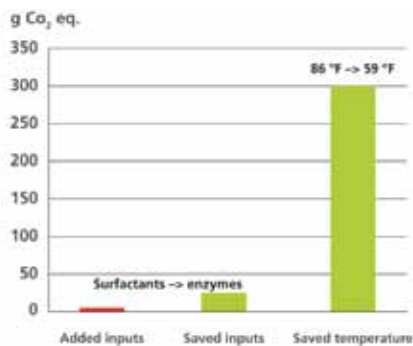
Green can clean

Consumers and manufacturers alike are trying to find the sweet spot between green and clean and erase the doubt in the mind of consumers that an environmentally-friendly product offers lower performance. Novozymes offers bioinnovation that enables Household Care manufacturers to produce high performing products that contain fewer chemicals, and clean at lower temperatures.

Novozymes' bioinnovative solutions help consumers make substantial energy savings. We estimate that our customers' average net savings is in the order of 130 kg of CO₂ emissions for each kg of Novozymes' enzymes they use. In 2009 we helped our customers save a total of 28,000,000 tons of CO₂, equivalent to the emissions of more than 11 million cars a year.

Reducing the environmental impact of washing

Enzymatic detergents offer a number of sustainability-related benefits: Reduced energy consumption by lowered wash temperatures, reduced water consumption through higher cleaning efficiency, reduced use of traditional chemistry, and conservation of agricultural land.



Based on life cycle assessments* we estimate that if US consumers turned the dial from hot to warm and warm to cold by using high performing enzymatic detergents, the savings would equal around 7.5 million tons of CO₂ equal to 21 million barrels of oil - slightly more than one day's average consumption of petroleum in the US.

Laundry soap bar – Reaching out to emerging markets

Two billion people worldwide do their laundry by hand using laundry bars. Easzyzyme®, a stabilized enzymatic solution developed for laundry bars, makes it easier to hand wash clothes and get a clean result with only half the effort and lowered consumption of water.

Novozymes is the first company in the world to launch an enzymatic solution for laundry bars, targeted at developing countries (the product is especially relevant for Africa, China, and Latin America) in a category where there has been no product innovation in the last two decades.

Novozymes underscores commitment to sustainability

Novozymes is committed to reducing CO₂ emissions and to continuously improving energy efficiency. We have set ambitious long-term targets for our environmental performance that include:

- Enabling 75 million ton reduction in CO₂ emissions per year by 2015 through customers' application of our products
- Reducing our CO₂ emissions by 50% in 2015 compared to 2005
- Increasing energy supply from renewable and CO₂-neutral sources to 50% in 2020
- Improving water efficiency by 40% in 2015 compared to 2005

* Novozymes' published LCA studies meet ISO 14040 standards, are subject to external expert review or published in recognized peer-reviewed journals.



P&G's Purpose is to improve lives, now and for generations to come. This inspires and compels us to accelerate our progress in sustainability.

Our Purpose is tightly and deliberately linked to our business and financial goals; it inspires our strategic choices; it leads to bigger and better innovation; it drives brilliant execution; and it compels us to make a difference in areas such as environmental and social sustainability. This is to not merely be a good citizen, but more importantly, to create future opportunities to touch and improve lives—and, in so doing, to keep our Company growing responsibly.

In 2007, P&G announced a renewed sustainability strategy and 5-year goals, which were increased in 2009. As part of its continued sustainability journey, P&G has announced a long-term environmental sustainability vision and corresponding 2020 goals to help make measurable progress toward this vision.

As part of P&G's strategy to grow responsibly, we will work towards a long-term environmental sustainability vision that includes:


- Powering our plants with 100% renewable energy
- Using 100% renewable or recycled materials for all products and packaging
- Having zero consumer and manufacturing waste go to landfills
- Designing products that delight consumers while maximizing the conservation of resources

As this vision will take decades to achieve, we have also announced new 10-year goals. These goals, which will be reached by 2020, represent an incremental step toward our long-term vision. These goals will help focus our efforts on where we can make the most meaningful difference in environmental sustainability.


The 2020 sustainability goals are in addition to our existing 2012 goals below and P&G is on-track to deliver these goals by 2012.

We are committed to improving P&G's sustainability results consistently and reliably over the long term. We are accountable for delivering our sustainability goals and will continue to report our year-on-year progress.

2020 Environmental Sustainability Goals

 **Products**

Replace Petroleum-Based Materials with Sustainably Sourced Renewable Materials	25%*
Cold Water Washing	70% of total washing machine loads
Packaging Reduction	20% (per consumer use)*
Consumer Solid Waste	Pilot studies in both developed and developing markets to understand how to eliminate landfilled/dumped consumer solid waste

 **Operations**

Renewable Energy Powering Our Plants	30%
Manufacturing Waste	<0.5% (disposed)
Truck Transportation Reduction	20% (km/unit of volume)*

*vs. 2010 baseline

P&G Report Card

2012 Sustainability Goals

These goals, originally set in 2007, were increased in March 2009. The goal for P&G Children's Safe Drinking Water (CSDW) program was again increased in September 2009.

 **Strategy 1: Products**

GOAL Develop and market at least \$50 billion in cumulative sales of "sustainable innovation products," which are products that have an improved environmental profile.⁽¹⁾

PROGRESS (in billions of U.S. dollars)	Cumulative Sales since July 2007
Cumulative sales of sustainable innovation products	\$ 26.5

 **Strategy 2: Operations**

GOAL Deliver an additional 20% reduction (per unit production) in CO₂ emissions, energy consumption, water consumption and disposed waste from P&G plants, leading to a total reduction over the decade of at least 50%.

PROGRESS (percent reduction per unit production)	Since July 2007	Since July 2002
Energy Usage	-14%	-50%
CO ₂ Emissions	-11%	-53%
Waste Disposal	-50%	-55%
Water Usage	-16%	-55%

 **Strategy 3: Social Responsibility**

GOAL Enable 300 million children to Live, Learn and Thrive.⁽²⁾ Prevent 160 million days of disease and save 20,000 lives by delivering 4 billion liters of clean water in our P&G Children's Safe Drinking Water program.⁽³⁾

PROGRESS	Since July 2007
LIVE, LEARN AND THRIVE	
Number of Children Reached	210 million
CHILDREN'S SAFE DRINKING WATER	
Liters of Clean Water Delivered	1.5 billion
Days of Disease Prevented	60 million
Lives Saved	7,450

(1) Sustainable Innovation Products are included if they have launched in market since July 1, 2007, and have a >10% reduction in one or more of the following indicators without negatively impacting the overall sustainability profile of the product: A. Energy, B. Water, C. Transportation, D. Amount of material used in packaging or products, E. Substitution of nonrenewable energy or materials with renewable sources.

(2) Live, Learn and Thrive (LLT) is P&G's global cause that focuses our social investments on efforts that improve the lives of children in need ages 0–13.

(3) Within Live, Learn and Thrive, our signature program is Children's Safe Drinking Water. Methodology for calculating diarrheal days and mortality was developed with Population Services International and Aquaya Institute. Details are provided in the 2010 Sustainability Report found at www.pg.com/sustainability.

We're going further with Earth Friendly High Performance Products



Pilot takes all necessary actions to ensure the safety and health of all employees, customers, end-users of our products and the communities in which we operate.

Pilot Chemical is a participating member of the ChemStewards® Environmental, Health and Safety program which goes beyond regulatory compliance and is recognized by industry and governmental agencies as a leading EH&S program.

Pilot Chemical is committed to reducing its environmental footprint by minimizing the consumption of natural resources.

Many of Pilot Chemical's products are naturally derived, sustainable and readily biodegradable.

Pilot is actively reducing the creation of waste from our operations.

Pilot Chemical offers many products that are approved and exceed the standards of the U.S EPA's DfE program and listed on CleanGredients.com®.



CalBlend® – Calfoam® – Calinate® – Calsoft® – Caltaine®

www.pilotchemical.com
1-800-70-PILOT

A Holistic Approach to Sustainability

At SC Johnson, sustainability is much more than the latest trend – it's a way of doing business. It's key to our commitment to doing what's right for people and our planet. We like to say...it is part of our DNA.

Because we take a holistic approach to sustainability, everyone at SC Johnson shares the job of thinking about sustainability implications and acting consistently with that commitment. That drives us to continuously work to improve our products, our processes and our communities.

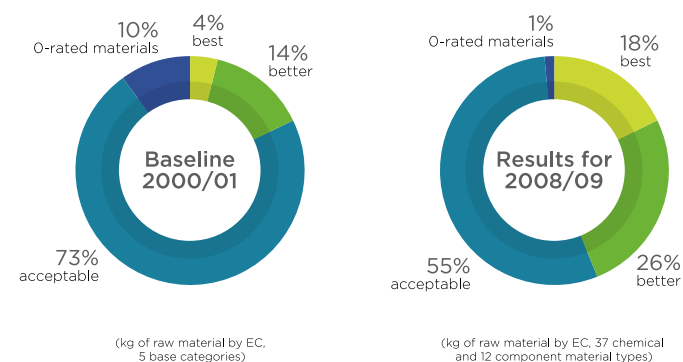
As it relates to improving our products for the sake of the environment and our consumers, this past year alone we have: 1) Used our patented Greenlist™ process to select ingredients that have less impact on the environment/human health; 2) Expanded access to our ingredient disclosure web site by creating French Canadian and Spanish-language sites; and 3) Invested in new products and product improvements that have a lighter footprint

Greenlist™ – A Process for Choosing More Earth-Responsible Ingredients

Through our patented Greenlist™ process developed in 2001, we provide ratings for more than 95 percent of the ingredients we use. In the process, each potential ingredient is rated from 3 to 0, with 3 considered "Best," 2 "Better," 1 "Acceptable" and 0-rated materials used only in special circumstances.

We've made good progress toward our aggressive 2011 plan to raise our overall average ingredient rating to 2. When we started Greenlist™, 18 percent of our ingredients had a rating of 2 or better. By 2008-2009, we had brought that number up to 44 percent.

The award-winning Greenlist™ process has led to numerous improvements, such as phasing out less desirable ingredients like PVC packaging. It's also resulted in many improved formulas that work better and have less impact. For example, we've cut nearly 48 million pounds of VOCs from our products in the last five years.



Ingredient Disclosure – Showing What We're Made Of

Knowing that families today want to understand more about the products they use in their homes, SC Johnson announced a broad ingredient communication program in March 2009. This program goes beyond the current standards to create a model for the industry – one that lists ingredients in dyes, preservatives and fragrances and makes information available through not one but three sources (online, on product labels and via a toll-free number).



Just eight months after announcing the program, we had populated our U.S. site (www.whatsinsidescjohnson.com) with ingredients for over 200 SC Johnson air care and home cleaning products.

By the end of 2009, SC Johnson Canada launched its own ingredient site in both English and French at www.whatsinsidescjohnson.ca. And in March 2010, SC Johnson became the first company in our industry to offer a Spanish-language ingredient site.

Continuously Improving our Products

We know that families worldwide count on us to deliver the best possible products. So, at SC Johnson, we focus on developing not only innovative, but effective, responsible products. A few recent product advances include:

- Windex® Glass Cleaner - Improved the formula to make the surfactant and solvent work better together, while at the same time giving the product an even better environmental profile.
- Ziploc® evolve® plastic bags - Made with 25 percent less plastic than regular Ziploc® Brand Bags and manufactured with a combination of renewable wind energy and energy from traditional sources.
- China's Mr. Muscle® Heavy Duty Kitchen Cleaner has a 30-percent-lighter bottle and a new formula that is less caustic.

View our Public Report at:

www.scjohnson.com/en/commitment/report.aspx

or visit our corporate Web site at:

www.scjohnson.com/en/commitment/focus-on.aspx

to learn more about other SC Johnson leadership initiatives to reduce greenhouse gas emissions, increase renewable resource usage, protect families and strengthen communities.

Seventh Generation

2009 Corporate Consciousness Report
Return on Purpose



Seventh Generation's 2009 Corporate Consciousness Report is the company's first all digital, online sustainability and CSR report. The new report, which is available in a more easily navigable online format designed to enhance accessibility to a wider set of stakeholders, outlines the company's new sustainability goals and its continuing progress in a wide number of key areas.

Corporate Responsibility 2.0.

A purer brand of ethical and sustainable corporate behavior.



At Seventh Generation, we're trying to create something better, which I call CR 2.0—a new brand of ethical and sustainable corporate behavior that stretches into all corners of our company to intentionally impact each system and guide every decision.

Co-Founder
Jeffrey
Hollender



This is the first year that our annual Corporate Consciousness report has been designed specifically for our website with searchable content that will invite consumers to read small sections at a time and to comment or ask questions.

Our Corporate Consciousness Report, 2009

Introduction and Executive Summary

A new CEO and new sustainability goals will guide our way forward.

Our Products

Learn about what drives our product and supply chain improvements.

Measuring our Environmental Footprint

Dive into our carbon footprint data and impressive transportation system overhaul.

Engagement

We're taking our passion for toxics reform and climate change measures beyond our consumer forums to lobby on a larger stage.

Seventh Generation's 2009 Sustainability and CSR Report, entitled Return on Purpose, is a fresh accounting of our ongoing journey towards a deeper level of sustainability. The new report highlights, several important company milestones, including:

- increasing post-consumer recycled plastic content of three top selling product bottles up to an industry-first 90%
- the purchase of GreenPalm sustainable palm oil credits
- launch of our first ever EPA registered botanical disinfecting cleaners
- eliminated traces of 1,4-dioxane byproducts from its dish liquid and laundry detergents.

These results are complemented by a set of new companywide sustainability goals, which call on the company to reduce its virgin plastic use by 80% over the next 5 years, obtain 100% of its palm oil from segregated sustainable sources by 2012, and ensure that all of the materials and

ingredients used in our cleaners come from renewable plant and mineral sources that ensure compostability and/or biodegradability in marine environments.

Importantly, the release of Seventh Generation's new corporate consciousness report also marks a big leap forward with report format itself. This year, for the first time, the complete document is available in a new online format that moves it away from a linear paper-based report and towards a richer and more frequently updated online reporting platform. Rather than stakeholders manually flipping page-by-page through hard copy or PDF versions, the new format invites them to read small sections at a time. This new online format is searchable, allows users to focus on select areas of interest, and dive deeper into stories and data where desired.

To read the entire Seventh Generation 2009 Corporate Consciousness Report, visit <http://www.7genreport.com/>.

Sustainable Development and Shell



Shell contributes to sustainable development by helping to meet the world's growing energy needs in economically, environmentally and socially responsible ways. We aim to deliver benefits and reduce our impact through the choices we make about which projects to invest in, by making more energy efficient products and by reducing the impact of our operations. Shell develops products and services to help meet the need for clean, convenient and affordable energy – for example by producing more cleaner-burning natural gas and by working to develop a transport biofuels business.



Our Business Principles have included a commitment to contribute to sustainable development and voluntarily report on our environmental and social performance since 1997. It requires us to balance short- and long-term interests, and to integrate economic, environmental and social considerations into business decision-making. One of our goals is to improve the way we design, build and run our operations to lessen environmental impact and to benefit local communities. Our sustainability reporting focuses on the challenges that most affect our business performance and matter most to our key stakeholders. Reporting in an honest and open way helps build trust, motivate staff, and improve our environmental and social performance.

Shell chemicals companies have embraced the concept of sustainable development and are working to integrate it into business activities. Central to sustainable development is a firm commitment to the systematic management of the risks associated with our operations and products, and to the delivery of continuous improvements in our Health, Safety, Security and Environment performance.

Shell became a member of the American Chemistry Council's Responsible Care program when it began in the U.S. in 1988. In fact, we actively supported the development of this system, which is verified through independent auditors. To manage our chemicals in the supply chain we place a strong emphasis on product stewardship, one of the key pillars of Responsible Care. Responsible Care helps America's leading chemical companies often go above and beyond government requirements and – very importantly – to openly communicate their results to the public.



Other ways Shell chemicals companies fulfill these commitments include developing and improving products that help reduce carbon dioxide emissions, working with customers to design sustainable products, implementing innovative waste handling programs at our facilities, and carrying out innovative research into new sustainable processes and technologies.

http://www.shell.com/home/content/environment_society/

http://www.shell.com/home/content/chemicals/responsible_energy/

The Sun Products Corporation is a leading North American provider of fabric care and household products with annual sales of more than \$2 billion. Headquartered in Wilton, CT, Sun Products was formed in 2008 from the combination of Unilever's North American fabric care business and Huish Detergents Inc., a leading manufacturer of private label laundry and dish care products. With a portfolio of established brands including Wisk®, all®, Surf®, Sun®, Sunlight® and Snuggle®, Sun Products holds the second largest market share in the \$10 billion North American fabric care market.

Understanding the impact of our business on society and the environment, and responding accordingly is fundamental to Sun Products and its corporate values. Our Company is committed to providing innovative home care products using the best technology and ingredients available, and we strive to balance environmental sustainability with our consumers' needs for cost effective products. Sun Products was among the first in the industry to introduce concentrated laundry detergent variants which reduced the amount of packaging materials and fossil fuel for freight. We were also an industry leader in harnessing plant-based surfactants, which are more biodegradable than petrochemical formulations.

Sun Products promotes "doing well by doing good" and fosters a culture that encourages its associates to share their knowledge and time to help in their local communities. Partnering with the Town of Trumbull, CT, the home of its North American Technology Center, Sun Products donated a sustainable playground to the Trumbull Nature and Arts Center. Sun Products' FULL CIRCLE Playground™ initiative utilized "plastic for playgrounds" representing the equivalent of 50,000 Sun Products plastic (HDPE#2) laundry containers recycled and saved from landfills. Sun Products associates and local citizens volunteered to join in the one-day community build installing the playground, assembling benches and picnic tables, and spreading 16 tons of engineered wood mulch for safety surfacing. Volunteers delivered nearly 2,000 in-kind service hours to the Town.



Sun Products also engaged the elementary school children of Trumbull to bring recycling full circle through an in-school recycling program. More than 3000 elementary children in seven schools collected an impressive 25,000 laundry and household "HDPE#2" plastic containers, which if lined up end to end are equivalent in length to 88 football fields! The plastic containers were turned into sustainable lumber, and later delivered as benches to the Nature Center and the participating Trumbull schools, showing the children the first-hand benefits of recycling.

True sustainability aligns environmental stewardship and good citizenship. The FULL CIRCLE Playground™ initiative incorporates both of these elements, demonstrating Sun Products' commitment to the communities where associates live and work, and our shared commitment to community and sustainability.



At our manufacturing site in the UK, we produce a product called TAED that helps consumers save energy every time they wash their clothes. Adding just a few percent of TAED to a laundry detergent means that consumers get excellent stain removal without the need to use hot water. Reducing the temperature at which clothes are washed is the most significant way the detergents industry can help reduce greenhouse gas emissions.

At Warwick Chemicals we are also committed to sustainability in the way that we manufacture our products. We are careful in our use of raw materials, recycling process liquors to extract as much product as we can. When we are unable to extract any further useful product, the small amount of solid waste left - which has the same calorific value as coal - is burnt on site to generate 10% of the site's steam requirement. This saves both energy and the need to landfill chemical waste. As a consequence of this, in 2008 and 2009 no hazardous chemical waste was sent from the site to landfill.

We have installed equipment throughout the site to reduce our energy requirements. This includes installing flue gas economisers, which improve the efficiency of boilers by 5% and reduce fuel use by 4%. We have also installed gas flow systems that reduce fuel usage by the boilers by a further 4%.

Initiatives are already planned to improve chemical efficiency and reduce energy usage further.

Throughout the year, learn how
the cleaning products industry
– and the products you use –
are contributing to global sustainability.

Visit ACI Sustainability Central
www.cleaninginstitute.org/sustainability



American Cleaning Institute®
(formerly The Soap and Detergent Association)

1331 L Street, NW, Suite 650 • Washington, DC 20005

202-347-2900 • Fax 202-347-4110

Email: info@cleaninginstitute.org

Website: <http://www.cleaninginstitute.org>