



GC³ | Green Chemistry &
Commerce Council
Moving Business Toward Safer Alternatives

The Green Chemistry & Commerce Council (GC3)





What is the GC3?

A cross sectoral, B-2-B network of more than 70 companies and other organizations formed in 2005 with a mission to promote green chemistry and design for environment (DfE), nationally and internationally





What is the GC3? (cont.)

A dynamic forum for leading edge companies to:

- **Share best practices and push the frontier of business practices that promote green chemistry**
- **Work collaboratively on projects to develop new business strategies, technologies, tools and information**





GC3 Vision

Green chemistry, green engineering and design for the environment are standard practice throughout the economy, contributing to innovation, improved public health and protection of the environment.



GC3 Strategic Approach

- **Develop and promote tools, policies and business practices to drive green chemistry throughout supply chains**
- **Foster collaboration among businesses, government, non-governmental organizations, and academic researchers**
- **Identify and leverage enablers of green chemistry adoption**



What is the unique niche of the GC3?

- Business-to-business
- Members are from:
 - Many sectors
 - Multiple points in the value chain: chemical producers, brands, retailers
- Collaborative projects to advance green chemistry and design for environment in industry
- Chemicals focus, not broader sustainability focus
- Networking
- Education
- Based at a university research center



The Value Proposition of the GC3 -- Why Do Companies Join?

- The GC3 is a one-stop forum for staying on top of the latest developments in green chemistry in industry.
- Membership gives you access to companies at the forefront of advancing green chemistry.
- Members bring their leading-edge experience, know-how and unique perspectives to collaborative GC3 projects, GC3 meetings and webinars.
- Members span 13 major sectors and the entire value chain — from chemical manufacturing to retail — providing unique opportunities to find out about initiatives across sectors and up and down the value chain



How does the GC3 Work?

- Advisory Board
- Membership Dues
- Project groups that meet by teleconference to work on projects that further the mission of the GC3 and the work of member companies
- Annual Innovators Roundtable
 - 2011- Hewlett Packard , Cupertino, CA
 - 2012- NSF International, Ann Arbor, MI
 - 2013- Johnson & Johnson, New Brunswick, NJ
 - 2014- 3M, St. Paul, Minnesota**

9th Annual
GC³ Green Chemistry &
Commerce Council
**Innovators
Roundtable**
MAY 28-30 2014
St. Paul, Minnesota

Hosted by **3M**



Who Coordinates the GC3?

- The Lowell Center for Sustainable Production (LCSP) at the University of Mass. Lowell
- Executive Director - Dr. Joel Tickner
- Deputy Director - Monica Becker
- Business Manager - Sarah Shields
- Project Group Leads:
 - Joel Tickner
 - Monica Becker
 - Sally Edwards
 - Bob Kerr
 - Amy Perlmutter
 - Saskia van Bergen



GC3 Members

3M
ACS Green Chemistry Institute
Actio Software Corporation
Anvil Knitwear
Avon Products, Inc.
BASF Corporation
Bayer MaterialScience LLC
BioAmber
Bose Corporation
Boston Common Asset Management
Center for Environmental Health
Center for Sustainability at Aquinas College
Clean Production Action
Construction Specialties, Inc.
Cradle to Cradle Products Innovation
Institute
CVS
Dell Inc.
Designtex
Dow Chemical Company
DuPont
Eastman Chemical Company
ecoSolv Technologies, LLC
EMC Corporation
Environmental and Public Health
Consulting
Environmental Defense Fund
Environmental Protection Agency
EPEAT, Inc.
Forsythia Foundation
Great Lakes Green Chemistry Network
Green Depot
Green Electronics Council
Green Seal, Inc.
GreenBlue Institute
Hackensack UMC
HallStar
Herman Miller
Hewlett Packard Company
Hyundai-Kia
Interface Global
Investor Environmental Health Network
Johnson & Johnson
Marathon Group, LLC
Method Products, Inc.
Michigan Department of Environmental
Quality
Minnesota Pollution Control Agency
NatureWorks LLC
New Balance
Nike, Inc.
NSF International
NYS Pollution Prevention Institute
Ouroboros Holdings LLC
Pacific Northwest Pollution Prevention
Resource Center
Pure Strategies, Inc.
REI (Recreational Equipment, Inc.)
Schneider Electric
Segetis, Inc.
Seventh Generation
SGS Consumer Testing Services
Shaw Industries Inc.
Staples, Inc.
Steelcase Inc.
Sustainable Research Group
Target
Teknor Apex Company
Tetrahedron
The Wercs Ltd
Timberland
Toxics Use Reduction Institute (TURI)
ToxServices, LLC
UL Environment
University of Connecticut Health Center
University of Toledo
Valspar Corporation
VF Corporation
Washington State Department of Ecology
Wegmans

GC3 Members, By Sector

Chemical/Specialty Chemicals

ACS Green Chemistry Institute
BASF Corporation
Bayer MaterialScience LLC
BioAmber
The Dow Chemical Company
DuPont
Eastman Chemical Company
ecoSolv Technologies, Inc.
The HallStar Company
Segetis, Inc.
NatureWorks LLC
Teknor Apex Company

Apparel & Footwear

New Balance
Nike, Inc.
Timberland
VF Corporation

Outdoor Industry

REI

Consumer Products

3M
Avon Products, Inc.
Johnson & Johnson
Method Products, Inc.
Seventh Generation, Inc

Office Furniture

Steelcase
Herman Miller
DesignTex

Building Products

Construction Specialties
Interface Global
Shaw Industries
Valspar Corporation

Auto

Hyundai-Kia

Electronics

Bose Corporation
Dell
EMC Corporation
HP

Retail

CVS
Staples
Target
Green Depot
Wegmans



GC3 Members, include:

Software

Actio Software
The Wercs

Product Standards & Certification

Cradle-to-Cradle Institute
EPEAT, Inc.
Green Seal
NSF International
SGS Consumer Testing Services

Consulting

Environmental and Public Health
Consulting
Marathon Group LLC
Ouroboros Holdings LLC
Pure Strategies
Sustainable Research Group
Tetrahedron
ToxServices, LLC

Government

Environmental Protection Agency
Mass. Toxics Use Reduction Institute
Michigan Department of Environmental Quality
Minnesota Pollution Control Agency
NYS Department of Environmental Conservation
NYS Pollution Prevention Institute
Washington State Department of Ecology

Non Governmental Organizations

Center for Environmental Health
Clean Production Action
Cradle to Cradle Products Innovation Institute
Environmental Defense Fund
GreenBlue
Green Electrics Council
Great Lakes Green Chemistry Network
Investor Environmental Health Network
Pacific Northwest Pollution Prevention Resource Center



Current Projects

- 1. Green Chemistry Education**
- 2. Retailers/Safer Products**
- 3. Chemical Data/Supply Chains**
- 4. Mainstreaming Green Chemistry**
- 5. Green Chemistry Innovation**

<http://www.greenchemistryandcommerce.org/projects/overview>

GC3 Signature Projects



GC3 Green Chemistry & Commerce Council
Moving Business Toward Safer Alternatives

Home About GC3 Projects Events Publications Retailer Portal

RETAILER PORTAL DATABASE
Tools to Evaluate Chemical Ingredients in Products

Key: Restricted Substances Lists Standards, Certifications & Labels Third-party Evaluation Tools

Apparel & Footwear						
Tools relevant to this product sector	Restricted Substances Lists (RSLs) e.g., AFA, REACH, STAD	bluesign®	EcoLogo	Global Organic Textile Standard (GOTS)	Oeko-Tex® Standard 100	Outdoor Industry Association (OIA) Eco Index Lists
Tools relevant to all product sectors	Cradle to Cradle® Certification	3E Green Product Analyzer™ (GPA)	Actio Material Disclosure	Chemical Compliance Systems (CCS) Tools	GreenWERCS™	IHS Chemical Inventory Greening Solutions
Automotive						
Tools relevant to this product sector	Restricted Substances Lists (RSLs) e.g., SAE, SAE J1708	EcoLogo	EPA Design for Environment (DfE) Safer Product Labeling Program	Green Seal		
Tools relevant to all product sectors	Cradle to Cradle® Certification	3E Green Product Analyzer™ (GPA)	Actio Material Disclosure	Chemical Compliance Systems (CCS) Tools	GreenWERCS™	IHS Chemical Inventory Greening Solutions
Building Materials & Products						
Tools relevant to this product sector	Restricted Substances Lists (RSLs)	EcoLogo	GreenGuard	Green Seal	SMARTS 4.0 Sustainable Product Standard	Pharos Project

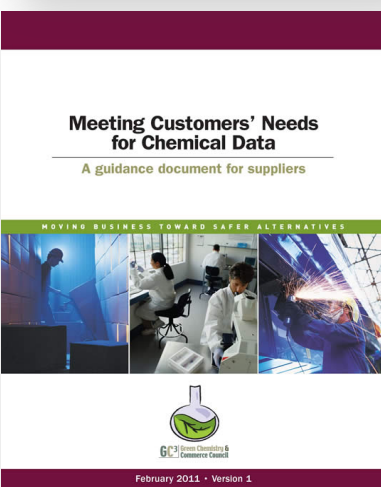
Topic: Retail

Retailer Portal: Tools to Evaluate Chemical Ingredients in Products



Topic: Policy

Growing the Green Economy: A State's Guide to Creating Opportunities for Green Chemistry and Design for Environment



Topic: Chemical data

Meeting Customers' Needs for Chemical Data: A guidance document for suppliers

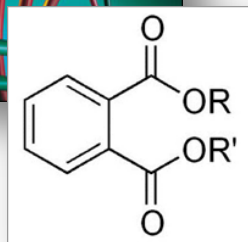
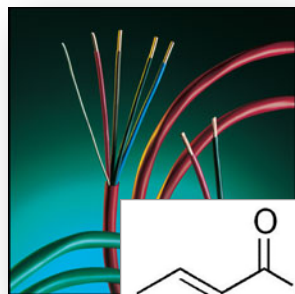


Considered Chemistry at Nike: Creating Safer Products through the Evaluation and Restriction of Hazardous Chemicals
Case Study for the Green Chemistry and Commerce Council (GC3)

Topic: Chemical data

Case studies of Nike, SC Johnson & HP

GC3 Signature Projects



**Topic: Business/
University
Partnerships**

**Collaborative
evaluation of
alternative
plasticizers for
wire and cable**

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The GC3 is a business-to-business forum that advances the application of green chemistry and design for environment across supply chains. It provides an open forum for cross-sectoral collaboration to share information and experiences about the challenges to and opportunities for safer chemicals and products.

**Green Chemistry and Commerce Council
Policy Statement on Green Chemistry in Higher Education**

Topic: Higher Education

**Policy Statement on Green Chemistry in
Higher Education**

GC³ Green Chemistry

★★★★
**BOOT
CAMP**
★★★★

Topic: Industry Education

**Green Chemistry and Safer
Alternatives Boot Camp**



Topic: Chemical Data

**Models to address
confidential business
information (CBI) in B-2-B
chemical data transactions**

GC3 Signature Events



8th Annual
GC³ Green Chemistry &
Commerce Council

**Innovators
Roundtable**

MAY 8-10 • 2013
New Brunswick, NJ



- Education
- Research
- Policy
- Collaboration
- Networking

GC3 Annual Innovators Roundtable

November 8, 2012

Green Chemistry Innovation in the Chemical Industry:
Venturing and Start-Ups

Cora Leibig, VP of R&D,
Segetis

Erik Rutten, Senior Investment Manager,
DSM Venturing

GC3 Webinars

National Summits for Retailers



Green Chemistry and Commerce Council
May 7, 2013 • New York City



**Networking
Events**

GreenBuild 2013





**Join the GC3 now to be part of
the leading-edge!**

**GC³ | Green Chemistry &
Commerce Council**
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