

Spotlight on U.S. EPA's Design for the Environment (DfE) Program



RPN Webinar

March 14, 2013



www.ResponsiblePurchasing.org



Questions?

Submit questions by typing them into the Questions box in your GoToWebinar application.

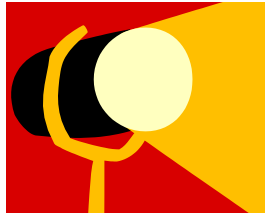
We will compile and answer them during the Q&A at the end of the webinar.



Poll Question #1

**How familiar are you with
the U.S. EPA's Design for
the Environment Label?**

VOTE NOW



Agenda

1. Welcome and Introduction
2. DfE's *Safer Product Labeling Program*
(standard development/recognition processes)
3. Other DfE Initiatives
 - *Safer Detergent Stewardship Initiative (SDSI)*
 - *Safer Disinfectants Pilot Project*
 - *Alternatives Assessment Program*
4. Q&A

Introduction



Alicia Culver
Executive Director
Responsible Purchasing Network

Spotlight on DfE Webinar
March 14, 2013



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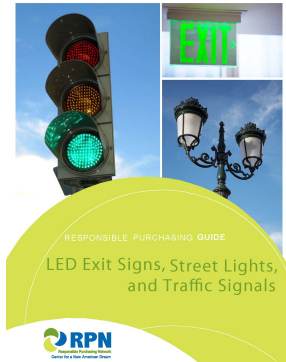
Who is RPN?

International Network

- State and local governments
- Federal agencies
- Colleges and universities
- School districts
- Businesses
- Nonprofit organizations
- Faith-based organizations



RPN Resources



- *Responsible Purchasing Guides* for 15 product categories
- Webinars on “green” procurement issues
- Newsletter highlighting “green” purchasing activities and resources
- Sustainable purchasing policies and specifications
- *Model Responsible Purchasing Report*
- Calculators and other tools



Webinars

Previous

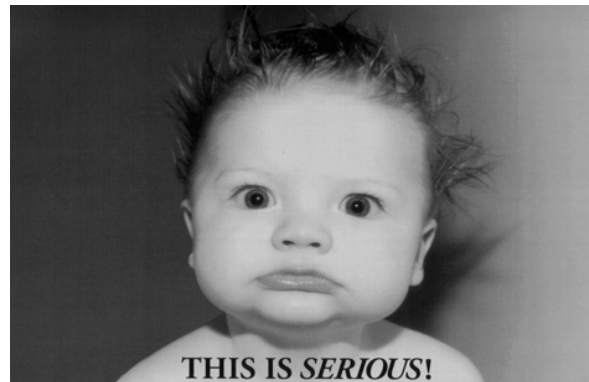
- **Purchasing for Climate Protection**
- **Compostable Food Service Ware**
- **Office Supplies Roundtable**
- **Green Tissue Products**
- **Public Procurement of Energy Efficient Products**



In the works

- **Green Chemistry & Purchasing (APRIL 4)**
 - **Green Lighting**
 - **Recycled and Low-VOC Paint**
 - **Green Purchasing Policies**
- ... and many more!**

Why are Safer Products Needed?



Greenwashing is Rampant



Tools are Needed to Help Purchasers Choose Safer Products



Poll Question #2

Does your jurisdiction or organization reference DfE in its green purchasing policy or specifications?

VOTE NOW

Questions? Comments?



Alicia Culver

Responsible Purchasing Network

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EPA

United States
Environmental Protection
Agency

Design for the Environment (DfE) Label - Responsible Purchasing Network Webinar

Bridget Williams, Outreach Lead

Libby Sommer, Environmental Scientist

March 14, 2013

Contents



- DfE Label
 - Background
 - Standard for Safer Products
 - Standard Development Process
 - Criteria for Safer Ingredients
 - Safer Chemical Ingredients List
 - Antimicrobial Pilot Project
 - DfE Label in Green Purchasing
 - Logo Redesign & Partner of the Year
- Related Projects
 - Safer Detergents Stewardship Initiative (SDSI)
 - Alternatives Assessments
 - OECD Working Group on Substitution of Harmful Chemicals
 - Guidelines for Standards and Ecolabels in Federal Purchasing



DfE Label: Multi-Attribute, Lifecycle-Based



- Allow use of the logo on products that:
 - Use safer, green chemistry ingredients
 - Perform well
- Rigorous evaluation for every ingredient
 - Robust health and environmental criteria
 - Whole-product criteria
- To use the logo, companies must:
 - Use only the safest ingredients
 - Undergo annual audits
 - Sign partnership agreement with EPA
 - Meet the DfE Standard for Safer Products



**Recognized for
Safer Chemistry**
www.epa.gov/dfe

DfE Label Statistics



- **2,750+** safer products / **550+** manufacturers / **750+** million pounds of safer chemicals per year
- \approx **2,000** products are industrial and institutional
- **700+** consumer products and growing rapidly
- Range of product categories:
 - Kitchen and bathroom cleaners, laundry detergents, disinfectants, field paints, car and boat care products, firefighting foams, hand soaps
- Potential for expansion to:
 - Personal care products, adhesives , lubricants and more

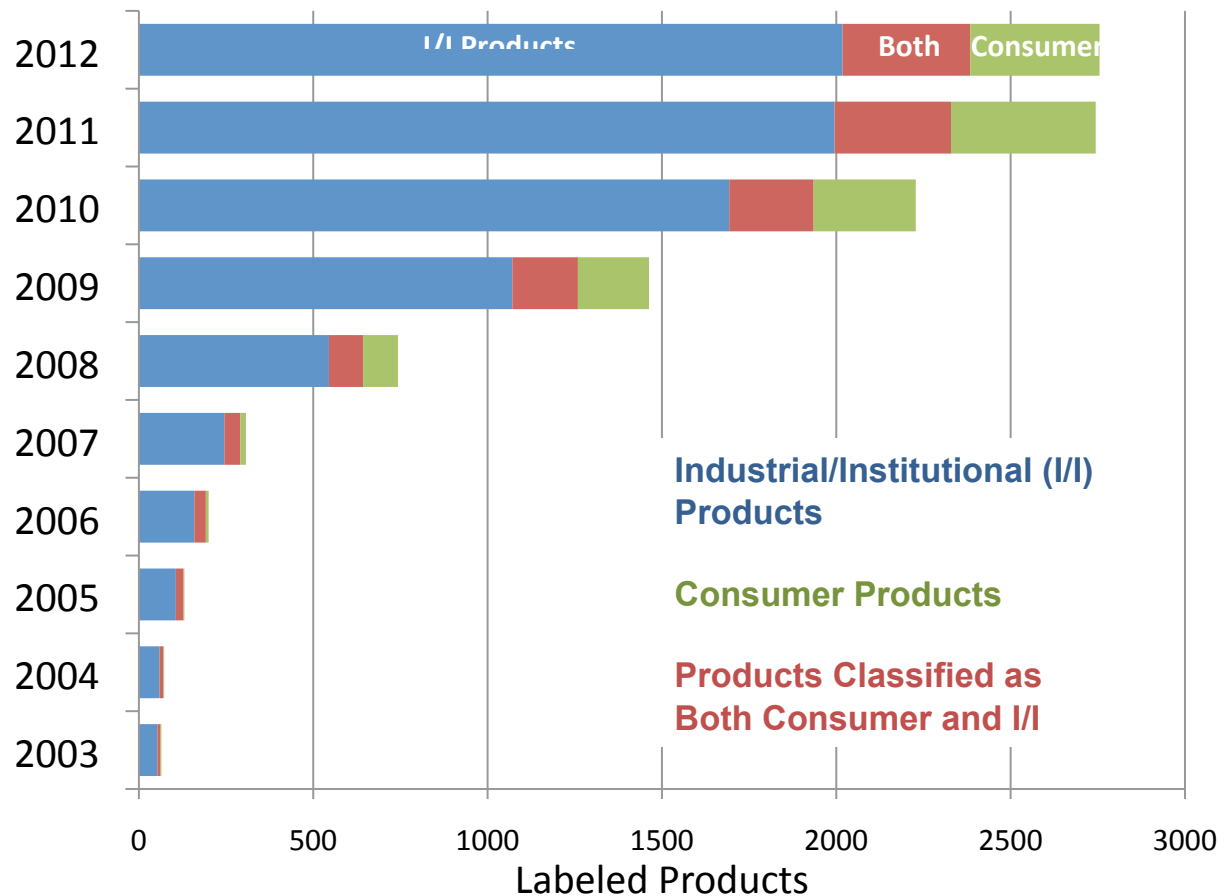




Growth in DfE-Labeled Products

Current Sectors:

aircraft cleaners, all-purpose cleaners, athletic field paints, automatic dishwasher products, biological-based products, car care, carpet cleaners, degreasers, deicers, dish soaps, fire-fighting products, floor care products, graffiti removers, granite/stone cleaners, hand soaps, laundry products, marine/RV cleaners, kitchen/ countertop cleaners, leather cleaners, metal cleaners/polishes, odor removal products, oven/grill/ barbecue cleaners, pavement treatments, pet care cleaning products, toilet bowl cleaners, tub/tile cleaners, upholstery cleaners, window/glass cleaners, wood cleaners





Design for the Environment An EPA Partnership Program

You are here: EPA Home » DfE » Safer Product Labeling » Labeled Products and Our Partners

Labeled Products and Our Partners

The following is a list of all partners and products recognized under the DfE Safer Product Labeling Program. DfE commends these companies for their leadership in designing products that are good for the environment and for their business.

A note on private labels and licensees: Partners may custom label a DfE-recognized product for another company, provided that the formulation remains identical to the recognized formulation. Similarly, DfE extends recognition to the products of Partner company licensees, provided that the Partner retains full legal control of the product formulation. Partners must inform DfE in advance of any private labeling or licensing activities that involve the use of DfE recognition.

* These are private-labeled or licensee products.

‡ This partner has not participated in the auditing process. Their products met the DfE certification criteria at the time of partnership, but DfE has not yet verified their product information via audit.

Industrial/Institutional Product Categories:

Advanced Search

Consumer Product Categories:

Advanced Search

Industrial/Institutional Product Category

Air Conditioner Coil Cleaners

Partner	City	State	Product	Partner Since
Atlantic Chemical & Equipment Co.	Atlanta	GA	ECO-KLEEN ECO-POWER	2008

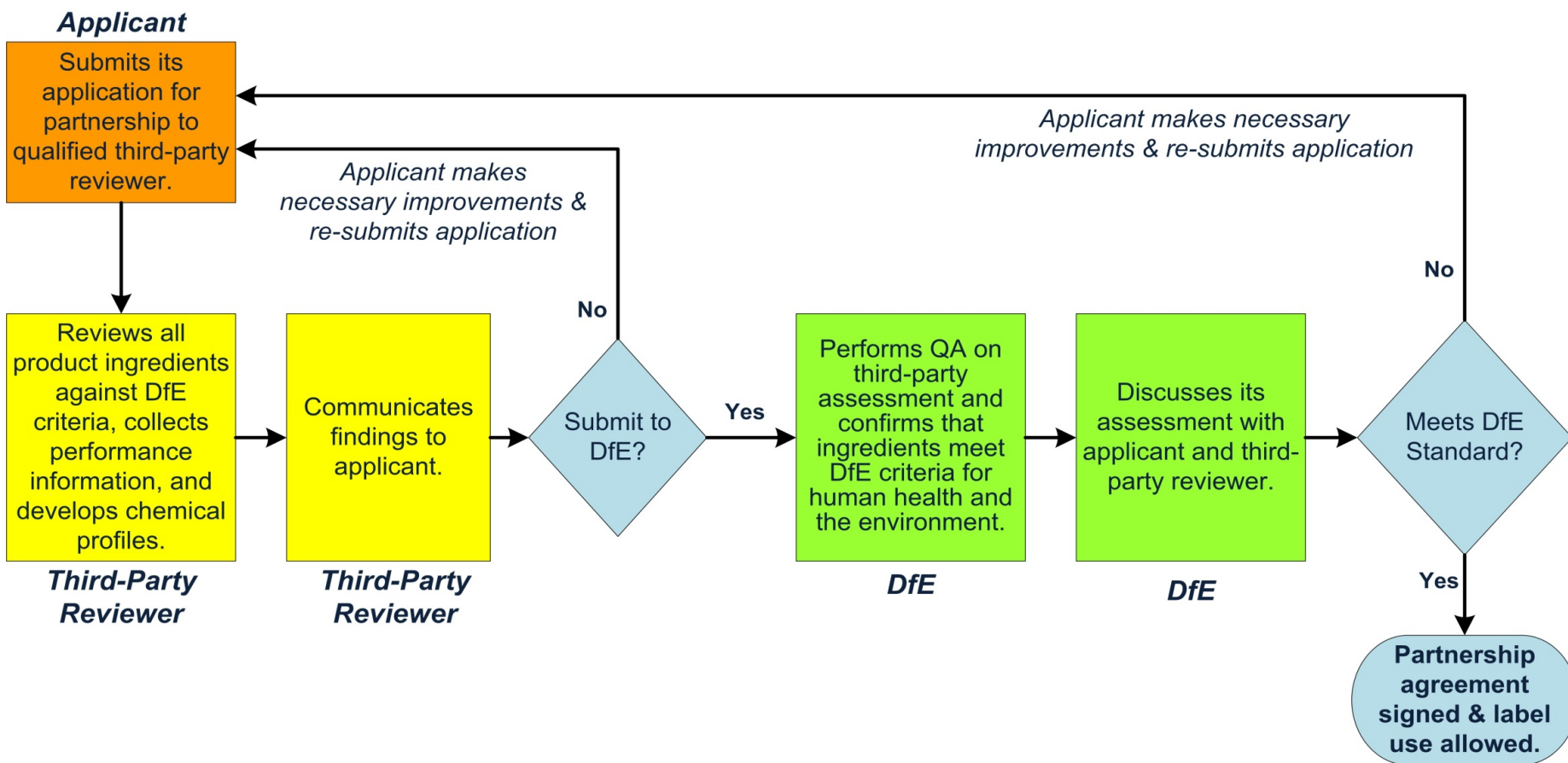
Top DfE Questions

- What does the DfE label mean?
- Where can I find a list of products with the DfE label?
- How do I apply to get the DfE label on my products?



Look for the label!

Steps to the DfE Label



Design for the Environment An EPA Partnership Program



What Does the DfE Label Mean?

Which Products Have the DfE Label?

How to Partner, Get the DfE Label

DfE Safer Chemical Ingredients

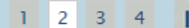
DfE Criteria for Safer Chemical Ingredients

DfE Antimicrobial Pesticide Pilot Project



What is Design for the Environment?

Watch our video >



The U.S. EPA's Design for the Environment program helps consumers, businesses, and institutional buyers identify cleaning and other products that perform well, are cost-effective, and are safer for the environment.

Look for products with the DfE label and protect your family's health and the planet.

Find Products with the DfE Label

Consumers

Industrial & Institutional Purchasers

- All-Purpose Cleaners
- Window Cleaners
- Tub/Tile Cleaners
- Laundry Detergents
- more...

La información sobre los productos más seguros en español



Frequently Asked Questions



Where can I find a list of products with the DfE label?



How do I apply to get the DfE label on my products?

What's New with DfE?

September 19, 2012 - Through its DfE program, EPA has posted a List of Safer Chemical Ingredients for use in DfE-labeled products. Read more about the list and accompanying changes to the DfE Standard (PDF). Please send questions to Bridget Williams (Williams.Bridget@epa.gov)

July 31, 2012 - Through its DfE program, EPA has released for comment the draft report "Bisphenol A (BPA) Alternatives in Thermal Paper" (PDF) (492pp, 6.1MB, About PDF). Read more about the BPA Alternatives in Thermal Paper Partnership. The draft report is available for comment until

Design for the Environment Videos



Design for the Environment

An EPA Partnership Program

You are here: EPA Home » DfE » How to Partner, Get the DfE Label on a Product

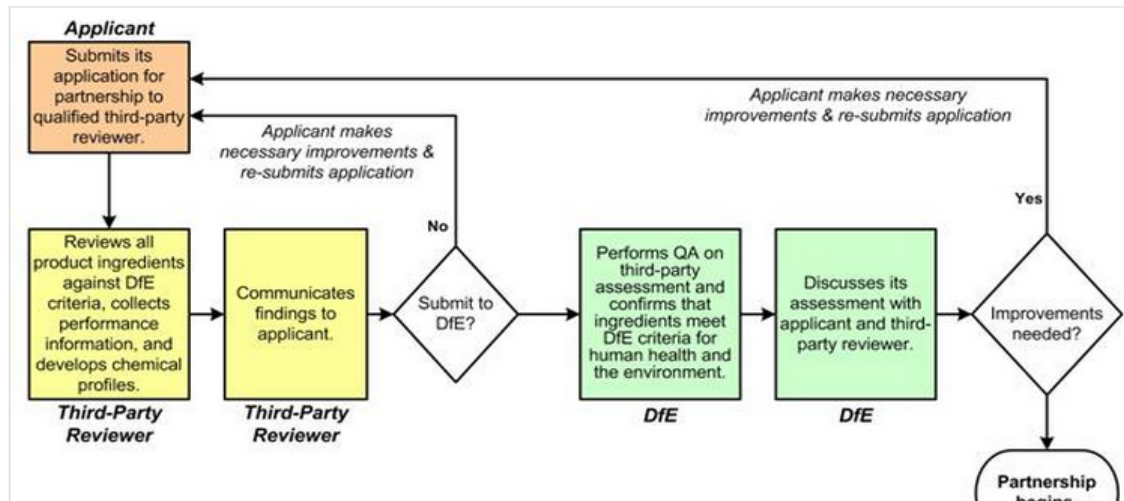
How to Partner, Get the DfE Label on a Product

You will need the free Adobe Reader to view some of the files on this page. See EPA's PDF page to learn more about PDF, and for a link to the free Acrobat Reader.

- [Steps to Partnership](#)
- [How to Start a Partnership for a New Category of Products](#)

Steps to Partnership

Steps to Partnership Flowchart



Top DfE Questions

- [Frequently Asked Questions](#)
- [Where can I find a list of products with the DfE label?](#)
- [How do I apply to get the DfE label on my products?](#)



Look for the label!

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An EPA Partnership Program

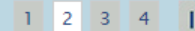


- What Does the DfE Label Mean?
- Which Products Have the DfE Label?
- How to Partner, Get the DfE Label
- DfE Safer Chemical Ingredients
- DfE Criteria for Safer Chemical Ingredients**
- DfE Antimicrobial Pesticide Pilot Project



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- Tub/Tile Cleaners
- Laundry Detergents
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Design for the Environment Videos

Design for the Environment

 An EPA Partnership Program

You are here: EPA Home » DfE » DfE's Standard and Criteria for Safer Chemical Ingredients

DfE's Standard and Criteria for Safer Chemical Ingredients

You will need Adobe Reader to view some of the files on this page. See EPA's PDF page to learn more.

On this page you will find:

[DfE's Standard for Safer Products \(SSP\)](#)
[Criteria for Safer Chemical Ingredients](#)
[Master Criteria](#)
[Functional-Class Criteria](#)
[Chelating and Sequestering Agents](#)
[Fragrances](#)
[Processing Aids and Additives](#)
[Solvents](#)
[Surfactants](#)
[Criteria for Innovative Industrial Product Recognition](#)
[Criteria for Direct Release Products](#)
[Criteria for Ice-Melt Products](#)
[Criteria for Microorganism-based Products](#)
[Criteria for Specialized Industrial Products](#)
[CleanGredients®](#)

DfE's Standard for Safer Products

The DfE "Standard for Safer Products" comprises the requirements products and their ingredients must meet to earn the EPA Design for the Environment label. Newly added to the Standard are provisions for the DfE Safer Chemical Ingredients List, including clarifications to the ingredient criteria that enable listing the range of chemicals in DfE-labeled products.

Other changes in the recent update to the Standard address:

Top DfE Questions

- [Frequently Asked Questions](#)
- [Where can I find a list of products with the DfE label?](#)
- [How do I apply to get the DfE label on my products?](#)



Look for the label!

Standard for Safer Products



The DfE Standard for Safer Products – requirements products and must meet to earn the DfE label

- Company-Level**
 - Partnership Agreement
- Product-level**
 - Auditing
 - Ingredient disclosure
 - Performance testing
 - VOCs, pH, and synergistic effects
 - Packaging
- Component-specific**
 - DfE Criteria for Safer Chemical Ingredients

Elements of DfE Standard



- Human health effects
 - Environmental health effects
 - VOC content
 - Packaging
 - Auditing
 - Ingredient disclosure
 - Performance
- Criteria that address:
 - Carcinogenicity
 - Mutagenicity
 - Reproductive Toxicity
 - Respiratory & Skin Sensitization
 - Biodegradability & Bioaccumulation
 - Aquatic toxicity
 - Degradation products
 - Synergistic effects

Continuing Technical Improvement Group



NGOs

- Lauren Heine, Clean Production Action
- Alexandra Scranton, Jamie Silberberger, Women's Voices for the Earth
- Tom Neltner, Pew Charitable Trust
- James Ewell, GreenBlue

States & Federal Government

- Peter Cooke, State of Maine
- Ken Zarker, Alex Stone, State of Washington
- Robert Guilleman, EPA Region 1

Trades & Product Manufacturers

- CSPA, ISSA, ACI, IFRANA
- Clorox, SC Johnson, Clean Control, Spartan

Academia

- Joel Ticker, Melissa Coffin, UMASS-Lowell

Retailers

- Zach Freeze, Wal-Mart
- Roger McFadden, Staples

Consultants & Third-Parties

- Teresa McGrath, NSF International
- Meg Whittaker, ToxServices
- Steve Ashkin, The Ashkin Group
- Dave Frank, AICS

Chemical Suppliers

- Stepan, Dow, Oxiteno, Arylessence, Florida Chemical

Auditing



- Established in March 2010, refined Sept 2012 – three-year cycle
- Desk audit
 - Verification of authorized formula via batch tickets, bills of lading, etc.
 - Submission of product labels and literature that use DfE logo
- On-site audit
 - Focus on manufacturing process and procedures
 - Verification of authorized formula via inspection, batch tickets, bills of lading, etc.
 - Review of Good Manufacturing Practices
- Renewal (3rd year)
 - Products are re-reviewed to ensure continued compliance with the DfE Standard

Ingredient Communication - Background



- Request from Sierra Club and CSPA
 - Use outcome of multi-stakeholder negotiations as a basis
- Discussion with Continuous Technical Improvement Stakeholder Group
 - NGOs including Women’s Voices for the Earth, Healthy Schools Campaign, Sierra Club, Clean Production Action, GreenBlue
 - Industry including product manufacturers, chemical manufacturers, & fragrance industry
- Implementation Timeline
 - Public comment period: 2010
 - Approach finalized: 2011
 - Partners notified: 2011-2012
 - Compliance audit: 2013

Ingredient Communication Requirements



- Public disclosure of all product ingredients via product label, website, or toll-free number
- Listing must include:
 - CAS number
 - Generic chemical name
 - Order from highest to lowest concentration
- Trade secrets protected but must use chemical descriptive name

Ingredients	CAS#
Water	7732-18-5
Dipropylene glycol n-methyl ether	34590-94-8
Dodecanol ethoxylate	68131-39-5
Potassium carbonate	584-08-7
Sodium carbonate	5968-11-6

Example of Acceptable Ingredient Communication



Performance Testing

- Established June 2009, refined April 2011 and Sept 2012
- Product-category specific
- Manufacturers may use alternative performance test if approved as objective and scientifically valid
- Standard refers to latest test methods established by AATCC, ASTM, CAN/CGSB, and CPSA for:

Glass cleaners

Laundry and related products

All-purpose cleaners

Oven Cleaners

Carpet cleaners/spot cleaners

Hand dish soaps

Washroom cleaners

Degreasers



Criteria for Safer Chemical Ingredients

- Define toxicological thresholds and supporting data required to determine which ingredients are the safest
- Specific criteria for each functional ingredient class:
 - Chelating Agents
 - Colorants
 - Defoamers
 - Enzymes & Enzyme Stabilizers
 - Fragrances
 - Oxidant & Oxidant Stabilizers
 - Polymers
 - Preservatives & Antioxidants
 - Processing Aids & Additives
 - Solvents
 - Surfactants
- Used as design criteria for safer chemicals
 - New, safer alternatives
 - New data
 - Testing for carcinogenicity, biodegradation, aquatic toxicity

New Fragrances Criteria



- Current criteria
 - IFRA Code of Practice, and
 - No Carcinogens, Mutagens, or Reproductive Toxicants (CMRs) or Persistent, Bioaccumulative, and Toxic chemicals (PBTs)
- New Version 2.1 (2012)
 - IFRA Code of Practice
 - No Carcinogens, Mutagens, or Reproductive Toxicants (CMRs) or Persistent, Bioaccumulative, and Toxic chemicals (PBTs)
 - No very Persistent & very Bioaccumulative (vPvB) or very Persistent & very Toxic (vPvT) chemicals
 - Skin sensitizers are limited in final product (aligns with EU approach).
 - No respiratory sensitizers

Fragrance Implementation Schedule



Currently, no CMRs or PBTs are allowed

- 2013 DfE partners receive formal notice of the version 2.1 criteria during annual audits
- 2014 Meet the criteria by the end of 2014
- 2015 Confirm during annual audit

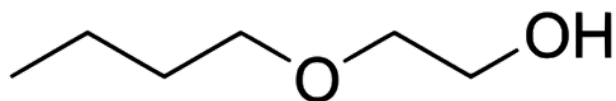
Value of the DfE Criteria



Ensures the use of safer chemicals

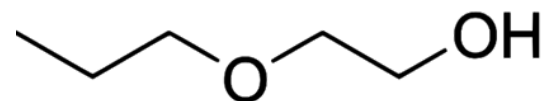
- Chemicals not allowed:
 - Identified through authoritative lists
 - Analogs to listed chemicals are not allowed
- Chemicals allowed:
 - Criteria for Safer Ingredients
 - Data are required to meet these criteria
 - No data = fail

Example: Uninformed Substitution



2-Butoxyethanol

- Frequently included in lists of solvents of concern
 - Cal/OSHA Hazardous Substances List
- Human health concerns include hemolysis leading to toxicity in kidney, spleen and liver.
- **Not allowed in DfE-labeled products**



2-Propoxyethanol

- Not widely recognized as a solvent of concern
 - Not on Cal/OSHA Hazardous Substances List
- Similar human health concerns including hemolysis leading to toxicity in kidney, spleen and liver.
- **Not allowed in DfE-labeled products**

DfE's Safer Chemical Ingredients List (SCIL)



www.epa.gov/dfe/saferingredients



- List of chemicals that meet DfE Safer Chemical Criteria and are acceptable for use in DfE-labeled products
- Responds to demand from stakeholders
- Published September 19, 2012
- Living list – updated frequently
- Almost 500 chemicals

DfE's Safer Chemical Ingredients List



What is included	What is NOT included	What CleanGredients offers
<ul style="list-style-type: none">• Chemical Abstract Service (CAS) number• Names<ul style="list-style-type: none">- Common chemical name- EPA inventory name• Functional class (e.g., surfactant, solvent)• Color-coding system	<ul style="list-style-type: none">• Source of chemical• Chemical manufacturer• Trade name• Formula-specific information (e.g., chemical use, percent composition)• Trade secret chemicals• Chemicals on the confidential TSCA inventory	<ul style="list-style-type: none">• Source of chemical• Chemical manufacturer• Trade name• Formula-specific information (e.g., chemical use, percent composition)• Trade secret chemicals



Design for the Environment

An EPA Partnership Program

You are here: [EPA Home](#) » [DfE](#) » [Safer Chemical Ingredients for Use in DfE-Labeled Products](#)

Safer Chemical Ingredients for Use in DfE-Labeled Products

The Safer Chemical Ingredients List contains chemicals that meet the criteria of the Design for the Environment (DfE) Safer Product Labeling Program. This voluntary program recognizes products that are high-performance and cost-effective using the safest chemical ingredients. At present, more than 2,800 products carry the DfE Safer Product Label. This list of safer chemical ingredients is arranged by functional-use class and will assist product manufacturers in identifying chemicals that the DfE program has already evaluated and identified as safer.

- [DfE's Safer Chemical Ingredients List](#)
- [About the List](#)
- [Additional Resources](#)

DfE's Safer Chemical Ingredients List

Safer Chemical Ingredients for Use in DfE-Labeled Products

- The listed chemicals are safer alternatives, grouped by their [functional-use class](#).[†]
- Chemicals are marked as a green circle ●, a green half-circle ◐, or a yellow triangle ▲.^{*}
- This list includes many of the chemicals evaluated through the DfE Safer Product Labeling Program. It does not include confidential chemicals and does not yet include fragrance chemicals. There may be chemicals not included in this list that are also safer.

- [Chelating Agents](#)
- [Colorants](#)
- [Defoamers](#)
- [Enzymes and Enzyme Stabilizers](#)
- [Fragrances](#)
- [Oxidants and Oxidant Stabilizers](#)
- [Polymers](#)
- [Preservatives and Antioxidants](#)
- [Processing Aids and Additives](#)
- [Solvents](#)
- [Specialized Industrial Chemicals](#)
- [Surfactants](#)
- [Uncategorized](#)

Top DfE Questions

- [Frequently Asked Questions](#)
- [Where can I find a list of products with the DfE label?](#)
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Design for the Environment An EPA Partnership Program

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Chelating Agents

Evaluated chemicals that meet Criteria for Chelating and Sequestering Agents

Common Name	CAS Registry Number
● Alanine, N,N-bis(carboxymethyl)-, sodium salt (1:3)	164462-16-2
● Citric acid, anhydrous	77-92-9
● D-Gluconic acid	526-95-4
● Dipotassium hydrogen citrate	3609-96-9
● L-Lactic acid	79-33-4
● Potassium citrate, anhydrous	866-84-2
● Potassium citrate, monohydrate	6100-05-6
● Sodium citrate, anhydrous	68-04-2
● Sodium citrate, dihydrate	6132-04-3

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Enhancing the SCIL



- Chemical manufacturers work with DfE to list safer chemicals in parallel with TSCA PMN process
- Product and chemical manufacturers work with DfE to list safer chemicals
 - Fragrances
 - Personal care chemicals
 - Apparel and building industry chemicals
- Retailers encourage product suppliers to use chemicals from SCIL

Useful Metric for Sustainability



Product meets DfE Criteria



Product increasingly uses safer chemicals
(One source is DfE's Safer Chemical Ingredients List)



Product avoids chemicals of known concern



OPP Antimicrobial Pilot Project

- Extended to May 3, 2015
- 2009 list of authorized actives included:
 - hydrogen peroxide
 - lactic acid
 - citric acid
- List of actives increased in 2012 to include:
 - ethanol
 - isopropanol
- Currently, 6 products have met the criteria and may use the DfE label
- Project webpage: <http://go.usa.gov/g4fj>

Use of the DfE Label in Green Purchasing



- Green Products Compilation – part of GSA’s Sustainable Facilities Tool (<http://sftool.gov/GreenProcurement>)
- DOD EMALL
- States, such as:
 - Illinois
 - New Jersey
 - others
- Retailers
 - Home Depot’s Eco Options
 - Private branded products (Safeway’s Bright Green, Target’s Up & Up, Costco’s Kirkland, Walmart’s Great Value)



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Green Products Compilation

Search



Appliances

Commercial and residential appliances, such as clothes washers, ovens, and refrigerators.

24 PRODUCTS



Building Finishes

Building interior products that provide finishing touches, such as carpeting, wallboards, paint and stains, and signage.

25 PRODUCTS



Building Furnishings

Products used inside buildings, such as furniture, ice and vending machines, and water coolers.

5 PRODUCTS



Cafeteria Products

Products used in the operation and maintenance of cafeterias, including tableware, appliances, and grease traps.

26 PRODUCTS



Cleaning Products

Institutional, industrial, and miscellaneous other cleaning products.

34 PRODUCTS

Get Additional Guidance

Guidance

References

[EPA's Comprehensive Procurement Guidelines](#)

[EPA's Significant New Alternatives Policy \(SNAP\) Program](#)

[EPA's WaterSense](#)

[The Federal Energy Management Program](#)

[USDA's BioPreferred Designated Products](#)

Find out about Environmental Programs



Learn More

DfE Logo Redesign



- DfE's logo unchanged since early 1990s

DfE Logo Redesign



EPA's eco-labels:



- DfE mission to promote safer chemical-based products is not conveyed by the current DfE logo
- Redesign could help better convey *human health* and environmental benefits of safer products
- Increase consumer recognition and confidence

DfE Logo Redesign - Milestones



Timeframe	
January – February 2013	Explore brand personality with DfE stakeholders
March – April	Design and test concept
May – June	Choose concept; develop materials to assist partners with transition
June	Roll-out new DfE logo design
July 2013 through 2014	Phased transition to new logo

DfE Partner of the Year Awards Program



- Recognize outstanding stakeholder efforts to further the safer chemistry goals of DfE
 - Product manufacturers
 - Full line of DfE-labeled products & other criteria
 - Retailers
 - Sustainability program with incentive for safer, DfE-labeled products
 - Purchasers, Distributors
 - Innovators (e.g., chemical manufacturers)
 - Supporters (e.g., NGOs, trades, academia, sports teams)
- Approved by OMB January 23, 2013
- Visit: federalregister.gov/a/2012-451





Related Projects

SDSI: Safer Detergents Stewardship Initiative



- Voluntary recognition program that awards businesses for the use of only safer surfactants
- Recognition awarded to manufacturers, formulators, retailers, distributors, institutional purchasers, & others
- Champion status
 - Currently manufacture, use, sell, or buy products that only use safer surfactants
 - 51 Champions (e.g., Colgate-Palmolive, S.C. Johnson, Sierra Club)
- Partner status
 - Commitment to manufacture, use, sell, or buy products that only use safer surfactants
 - 23 Partners (e.g., Jelmar, County of Riverside, CPA)



Alternatives Assessments - Background



- Identify and compare potential chemical alternatives
- Can consider chemicals the Agency has chosen for action and alternatives

Methodology

- Convene Stakeholders and refine Scope
- Identify potential alternatives
- Evaluate priority chemicals & potential alternatives
 - » High, Moderate, or Low ratings for:
 - Human health effects
 - Environmental fate & effects
- Provide information manufacturers can use to create more sustainable products through “informed substitution” & help minimize potential for unintended consequences

Recent DfE Alternatives Assessments



- Tetrabromobisphenol A (TBBPA) in Printed Circuit Boards
 - » combustion testing completed
- Nonylphenol and Nonylphenol Ethoxylates (NP/NPE)
 - » final report May 2012
- Bisphenol A (BPA) in Thermal Paper
 - » draft report posted July 2012
- Decabromodiphenyl Ether (decaBDE) Flame Retardant Alternatives in Plastics
 - » draft report posted July 2012
- Certain Phthalates
 - » list of potential alternatives Spring 2013
- Hexabromocyclododecane (HBCD) Alternatives in Building Insulation
 - » draft report Spring 2013

BPA in Thermal Paper (Draft, Partial)



Human Health
Hazard Concern

Ecotoxicity
Hazard Concern

Environmental
Hazard Concern

Chemical	CASRN	Human Health Effects											Aquatic Toxicity		Environmental Fate	
		Acute Toxicity	Carcinogenicity	Genotoxicity	Reproductive	Developmental	Neurological	Repeated Dose	Skin Sensitizer	Eye Irritation	Dermal Irritation	Respiratory Sensitization	Acute	Chronic	Persistence	Bioaccumulation
Bisphenol A 2,2-bis(p-hydroxyphenyl)propane	80-05-7	L	M	L	H	H		M	M	M	M		H	H	VL	L
Bisphenol F Bis(4-hydroxyphenyl)methane	620-92-8	L	M	L	H	H		H	L	VH	M		M	H	L	L
Bisphenol C 2,2'-Bis(4-hydroxy-3-methylphenyl)propane	79-97-0	L	M	M	H	H		M	M	VH	M		VH	VH	M	M
MBHA Methyl bis(4-hydroxyphenyl)acetate	5129-00-0	L	M	L	H	H		M	L	M	M		H	H	M	L
BisOPP-A 4,4'-Isopropylidenebis(2-phenylphenol)	24038-68-4	L	M	L	H	H		M	M	M	M		L	VH	VH	M
Bisphenol AP 4,4'-(1-Phenylethylidene)bisphenol	1571-75-1	L	M	L	H	H		M	M	M	M		VH	VH	H	M

OECD Ad Hoc Working Group on Substitution of Harmful Chemicals



- Brings together 30+ experts from Governments, Industry (chemical suppliers and down-stream users), NGOs and Trade Unions
 - Chaired by EPA and ECHA
- Phase 1: Develop a toolbox to support alternatives assessment (now)
 - Working on tool selector to help sort through and chose appropriate alternatives assessment tools
 - Open stakeholder workshop – Fall/Winter 2013
- Phase 2: Harmonization of alternatives assessment practices (beginning Winter 2013)

Executive Order 13514



- Agencies measure, report, and reduce their greenhouse gas emissions from direct and indirect activities;
- Work with US govt. suppliers to get data for tracking and reducing scope 3 greenhouse gas emissions related to the supply of products and services to the Government
- Leverage federal acquisitions to foster markets for sustainable technologies and environmentally preferable materials, products, and services
- Advance sustainable acquisition



- Section 13 Interagency Workgroup, GSA chair
 - Interagency Product Standards and Ecolabels Subgroup
 - GSA / EPA co-chairs
 - Includes DOD, DLA, USDA, NIST, NIOSH, VA, NASA, DOC, DOI, and more.
 - 6 other sub-groups focused on training, education, data systems, GHG inventories, and communications

Subgroup Approach



Grounding

- Identified existing environmental purchasing requirements for federal buyers.
- Identified existing guidelines relating to product standards and ecolabels.
- *Completed May 2011.*

Initial Guideline Development & Assessment

- Developed initial draft set of Guidelines.
- Tested draft Guidelines based on feedback from organizations responsible for environmental standards and ecolabels.
- *Completed September 2011.*

Stakeholder Inreach / Outreach

- Engaged government stakeholders to gain feedback.
- Sought awareness and high-level input from non-government stakeholders.
- *Bilateral stakeholder meetings completed January 2012.*

Draft Guidelines

- Submit Guidelines and Implementation Recommendation to CEQ and OMB.
- *Completed February 2013.*

Organizations Surveyed



FSC	FSC Forest Management, Chain of Custody & recycled Content
GreenSeal	GreenSeal
BIFMA	Level
SCS	Floor Score, Indoor Adv; Sustainable Product; Biodegradable; Other
SFI	SFI
SMART	Sustainable Materials Rating Technology (SMaRT)
TCO Development	TCO
The Carbon Neutral Company	Certified Carbon Neutral
UL Environment	GreenGuard, Ecologo, ULE sustainably certified (wallboard, doors)
GEC/IEEE	EPEAT
NSF	NSF Carpet, Textiles, Wallcoverings, Resilient Flooring, Roofing Membranes
EPA/DOE	Energy Star
EPA	WaterSense
EPA	Design for the Environment (DfE)
USDA	BioBased
DOE	FEMP Designation Purchasing Specifications
EPA	Recovered Materials Advisory Notices (RMANs)/ CPG

DRAFT Interagency “Section 13” Guidelines:



- *Guidelines for the Process for Developing Standards* refers to the procedures used to develop, maintain, and update an environmental standard.
- *Guidelines for the Environmental Effectiveness of the Standards* refers to the criteria in the environmental standard or ecolabel.
- *Guidelines for Conformity Assessment* refers to the procedures and practices by which products are assessed for conformity to the requirements specified by standards and ecolabeling programs.
- *Guidelines for Management of Ecolabeling Programs* refers to the organizational and management practices of an ecolabeling program.

Useful web pages and additional information



DfE website:

www.epa.gov/dfe

DfE-Labeled Products:

www.epa.gov/dfe/products

DfE Standard for Safer Products:

www.epa.gov/dfe/pubs/projects/gfcp/index.htm#Standard

DfE Safer Chemical Ingredients List:

www.epa.gov/dfe/saferingredients

ES&T -- "Chemical Alternatives Assessment: Enabling Substitution to Safer Chemicals:"

pubs.acs.org/doi/full/10.1021/es1015789

QUESTIONS?



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Thank You for Attending RPN's Webinar:

Spotlight on U.S. EPA's Design for the Environment (DfE) Program

Questions? Comments?



www.ResponsiblePurchasing.org

