### **Green Cleaning: A Marketplace** Phenomenon **Bill Balek, ISSA** bill@issa.com March 5, 2008 Mexico City, MX



- ISSA: Non-Profit Trade Association
- Representing the Institutional and Industrial Cleaning Industry
- Over 5,500 Member Companies
  - Manufacturers
  - Distributors
  - Contract Cleaners
  - In-House Service Providers

### Introduction

Environmental Preferability

- Trending of the Marketplace
- Growing Demand for Green Products
- Green as a Sustainable Trend

 Standards, Guidance, Policies that Define Green Products

# Trending of the Marketplace

- Big Picture: A Macroeconomic View
- Auto Industry
- Computers
- Energy
- Grocery
- Retail Stores
- Cleaning Industry



# Is Green a Sustainable Trend?

Factors that Impact All Industry Sectors Increased Environmental Awareness, Concern Global Warming United Nations Report Growth in Green Chemistry Financial Community

# Is Green a Sustainable Trend?

Factors that Impact the Cleaning Industry Laws and Regulations Volatile Organic Compounds European Union: REACH Worker Safety and Health Commercial Buildings Mexico Green Building Council U.S. Green Building Council

# Is Green a Sustainable Trend?

Factors that Impact the Cleaning Industry Key Institutional Market Sectors Schools and Healthcare Government Procurement Practices Private Sector Purchasing Policies Market Data Consumer and Institutional Markets

# Confusion in the Marketplace

- Growth in Green Products, Claims: Confusion
- Misleading, Undefined Green Claims
- Lack of Uniformity in Claims
- Understanding of Environmental Impact and Technology Continues to Evolve



# **Green Cleaning Procurement**

Standards, Guidelines, Policies Lend Certainty to Buying Green Cleaning Product Formulations Paper Products Plastic Trash Bags Microfiber Cloths Powered Cleaning Equipment



# **Cleaning Product Formulations**

#### Green Seal

- U.S. Environmental Protection Agency
   Design for the Environment (DfE)
- Environmental Choice EcoLogo
- Standards, Criteria for Green Cleaners







### Bathroom, Carpet, General Purpose, and Glass Cleaners

Green Seal: GS-37 www.greenseal.org EcoLogo: CCD-146 www.ecologo.org EcoLogo<sup>∞</sup> EPA Design for the Environment for the Formulator Program www.epa.gov/dfe

### Bathroom, Carpet, General Purpose, and Glass Cleaners

Green Seal, DfE, EcoLogo
 Standards and Criteria
 Human Health
 Environmental Impact



### Bathroom, Carpet, General Purpose, and Glass Cleaners

Human Health Criteria Toxicity (Oral and Inhalation) Carcinogens, Reproductive Toxins Skin, Eye Irritation Skin Sensitivity Combustibility Employee Training



### Bathroom, Carpet, General Purpose, and Glass Cleaners

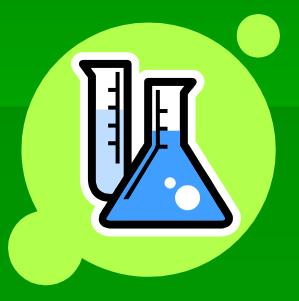
Environmental Criteria
 Volatile Organic Compounds
 Toxicity to Aquatic Life
 Biodegradability
 Phosphates



### Bathroom, Carpet, General Purpose, and Glass Cleaners

Prohibited Ingredients
 Alkyphenol Ethoxylates
 Heavy Metals
 Ozone Depleting Compounds
 Dibutyl Phtalate
 Packaging

Performance



Green Seal: GS-41

www.greenseal.org

EcoLogo: CCD-104

www.ecologo.org

Human Health
Environmental Impact



Human Health Criteria:
 Skin Sensitizer
 Skin Irritant
 Carcinogens



Prohibited Ingredients:

- Phosphates
- Alkylphenol Ethoxylates
- Ethylene Diaminetetra-Acetic Acid
- Nitrilotriacetic Acid
- Halogenated Organic Solvents
- Butoxy-ethanol



Environmental Criteria: Volatile Organic Compounds No Antimicrobial, Sanitizing Claims Aquatic Biodegrability Aquatic Toxicity Packaging Performance

### **Floor Finishes**

- Durability: 3 Years or More
- No Heavy Metals
- Compatible with Floor Finish Stripper



# **Floor Finish Stripper**

Low Volatile Organic Compound Content
 Neutral pH (Closer to pH of 7)
 Bio-Based, Renewable Resources



# **Floor Finish and Stripper**

 Prefer Products that Meet the Criteria of:
 Green Seal (GS-40)
 Environmental Choice EcoLogo (CCD-147)
 U.S. EPA Design for the Environment Formulator Program



## **Disinfectants, Sanitizers**

Select the Least Toxic
Neutral pH (Closer to pH of 7)
Biodegradable



# **Other Cleaning Products**

- Chrome Cleaners, Polishes
- Degreasers
- Furniture Polish
- Graffiti Remover
- Spot Remover, and Others
- See: Illinois Green Guidelines
  - www.issa.com/ilgrn

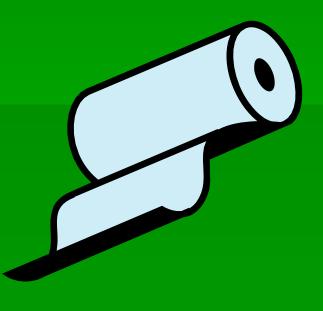
### Commercial and Industrial Sanitary Tissue

#### U.S. EPA Comprehensive Procurement Guidelines www.epa.gov/cpg

Product	Postconsumer Fiber
Bathroom Tissue	20 – 60 %
Paper Towels	40 - 60 %
Facial Tissue	10 – 15 %
Industrial Wipes	40 %

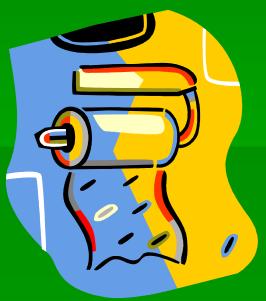
# **Janitorial Paper Products**

- Other Standards and Criteria
- Green Seal
  - GS-01 (Bathroom and Facial Tissue)
  - GS-09 (Paper Towels)
  - www.greenseal.org



# **Janitorial Paper Products**

Other Standards and Criteria
 Environmental Choice EcoLogo
 CCD-082 (Toilet Tissue)
 CCD-086 (Paper Towels)
 www.ecologo.org



# **Plastic Trash Bags**

Minimize Resource Use and Waste
 Recycled Content

 Minimum of 10% Postconsumer Content

 Biobased Content



# Microfiber Cloths and Mops

Microfiber Reduces Need for Chemical Soft Weave or Fibers Dusting, Polishing, General Cleaning Hard Weave or Fibers Cleaning Glass or Other Hard Surfaces Blended with Cotton Damp or Wet Cleaning

# Powered Cleaning Machines

- Vacuum Cleaners
- Carpet Extraction Equipment
- Propane Powered Cleaning Equipment
- Floor Burnishers and Buffers
- Scrubbing Machines

# Powered Cleaning Machines

Source of Green Criteria
U.S. Green Building Council
LEED for Existing Buildings, Operations and Maintenance

www.usgbc.org

### **Vacuum Cleaners**

Carpet and Rug Institute Green Label
 Soil Removal
 Dust Containment
 www.carpet-rug.org
 Sound Level:
 Less than 70 dBA

# Carpet Extraction Equipment

- Carpet and Rug Institute Seal of Approval
- Soil Removal
- Water Removal
- www.carpet-rug.org



# Propane Powered Cleaning Equipment

- High Efficiency, Low Emission Engines
- Catalytic Converters that meet the Requirements of:
  - California Air Resources Board; or
  - U.S. Environmental Protection Agency
- Sound Level: Less than 90 dBA

# Powered Floor Maintenance Equipment

Floor Burnishers and Buffers
 Equipped with Vacuums, Guards

 Capture Fine Particulate Material

 Sound Level of Less Than 90 dBA



# Powered Scrubbing Machines

Variable Speed Feed Pumps
On Board Chemical Metering
Optimize Use of Cleaning Fluids

# Powered Cleaning Machines

**Miscellaneous** 

Battery Powered Equipment
 Gel Batteries
 Ergonomically Designed

Minimize Vibration, Noise, User Fatigue

Safeguards (rollers or bumpers)
 Minimize Damage to Building Surfaces

### **ISSA Resources**

#### Green Cleaning For Dummies

- ISSA Special Edition
- www.issa.com

Guide to Green Cleaning Procurement Policies

- www.issa.com/greenprocure
- Cleaning and the USGBC LEED EB
  - What is the Connection?
  - www.issa.com/leedeb

### Resources

Commission for Environmental Cooperation North American Green Purchasing Initiative www.cec.org/nagpi SEMARNAT www.semarnat.gob.mx U.S. EPA www.epa.gov/cpg www.epa.gov/epp

### Resources

Green Seal www.greenseal.org U.S. EPA Design for the Environment Formulator Program www.epa.gov/dfe Environmental Choice EcoLogo www.ecologo.org

### Resources

Mexico Green Building Council

 www.mexicogbc.org

 U.S. Green Building Council

 www.usgbc.org

## Summary

Marketplace is Going Green Cleaning Industry is no Exception Standards, Guidelines Help Green Market to Grow Environmental Strategies Innovate Create Value Build Competitive Advantage

### **Thank You**

### Discussion

