



# **NJ Environmentally Preferable Purchasing**

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## **Executive Order 76 (EO 76)**

- **Issued January 2006**
- **Directs state agencies to purchase environmentally preferable cleaning products**
  - **cleaning products that minimize potential impacts to human health and the environment**
  - **can use up existing inventories**
- **Encourages non-state agencies to do the same**

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## E0 76

- **Directs departments of Treasury, Health and Environmental Protection to establish guidelines/regulations to implement order**
- **Directs Treasury to issue report**
  - Governor and legislature
  - Within one year



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## **☀ WHY IS ENVIRONMENTALLY PREFERABLE CLEANING IMPORTANT?**

- CLEANING PRODUCTS ADVERSELY AFFECT INDOOR AIR QUALITY**
- JANITORIAL WORKERS EXPERIENCE ONE OF THE HIGHEST RATES OF OCCUPATIONAL ASTHMA**
- CLEANING PRODUCTS CONTAIN CARCINOGENS, ASTHMAGENS, ENDOCRINE DISRUPTORS AND THE LIST GOES ON.....**



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## **☀ HEALTH SAFETY & CLEANING PRODUCTS**

- A SINGLE JANITORIAL WORKER USES ON AVERAGE 194 LBS OF CHEMICALS ANNUALLY, APPROXIMATELY 25% OF WHICH ARE HAZARDOUS SUBSTANCES**
- 6 OUT OF EVERY 100 JANITORS ARE INJURED BY CHEMICALS EACH YEAR**
- 20% OF THOSE INJURIES ARE SERIOUS BURNS TO EYES OR SKIN**

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## **MOUNT SINAI STUDY**

- **THE SAME CHEMICALS USED IN COMMON CLEANING PRODUCTS WERE FOUND IN BLOOD AND URINE SAMPLES OF JANITORIAL WORKERS AND INCLUDED**
  - **VOCS**
  - **DIBUTYL PHTHALATE**



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## **CHEMICAL SPECIFIC HEALTH & SAFETY**

- **2-BUTOXYETHANOL**
- **ABSORBED DIRECTLY THROUGH SKIN**
- **MAY AFFECT DEVELOPING FETUS**
- **IS A SUSPECTED CARCINOGEN**
- **CAN CAUSE LIVER & KIDNEY DAMAGE**
- **COMMON IN**
  - **SURFACE CLEANERS (GLASS, ALL PURPOSE)**
  - **SPECIALTY CLEANERS (DISINFECTANTS, CARPET)**

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## **Workgroup Formed**

- **Treasury, DEP, DHSS**
  - Reviewed MA RFR (RFR#GR016 October 2002)
  - Reviewed NY Green Cleaning for Schools guidance document (August 2006)
  - Reviewed Green Seal & Env Choice Criteria Docs
  - Reviewed USEPA's Design for the Environment (DfE) Formulators Initiative
  - Limited input from industry/trade associations

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## **Workgroup Goal**

- **Develop standards that met the following criteria:**
  - - **Protective of human health & environment**
    - **Measurable/defensible/competitive**
      - **Green Seal/Env Choice best available**
      - **DfE process rigid enough to meet criteria**

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## Workgroup Recommendations

- **Request for Proposal (RFP) would contain a combination of Green Seal and Env Choice requirements**
- **Spell out requirements as opposed to just referencing Green Seal/Env Choice**

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## • Performance Standards

- General & product-specific

## • Health and Environmental Standards

- Toxicity, carcinogens, endocrine disruptors, reproductive toxins
- Skin & eye irritation, skin sensitization
- Combustibility
- Photochemical smog, tropospheric ozone production & indoor air quality
- Toxicity to aquatic life
- Aquatic biodegradability
- Eutrophication
- Packaging
- Concentrates
- Fragrances
- Prohibited ingredients
  - General & product-specific

## • Labeling

## • Documentation

## • Training

- Vendor must provide mandatory training on use of products

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## ☼ Toxicity

- The *undiluted* product/s shall meet the following toxicity criteria. Dispensing-system concentrates shall be tested as used. A product is considered toxic if any of the following criteria apply:
- **Oral lethal dose (LD<sup>50</sup>) < 2,000 mg/kg**
- **Inhalation lethal concentration (LC<sup>50</sup>) < 20 mg/L\***

## ☼ Floor Finishes

- **Oral lethal dose (LD<sup>50</sup>) < 2,000 mg/kg**
- **Inhalation lethal concentration (LC<sup>50</sup>) < 20 mg/L\***
- **Or**
- **Calculated LD<sup>50</sup> (oral rat) of <6,000 mg/kg**

## ☼ Floor Strippers

- **Oral lethal dose (LD<sup>50</sup>) < 2,000 mg/kg**
- **Inhalation lethal concentration (LC<sup>50</sup>) < 20 mg/L\***
- **Or**
- **Calculated (LD<sup>50</sup>) (oral rat) of < 4000 mg/kg**

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## ☼ Documentation - for each of the product bid

- A Green Seal certification (GS-37) (General Cleaners)
- or
- Environmental Choice Certification (CCD-146) (General Cleaners)
- or
- Proof of recognition by US Environmental Protection Agency's (EPA) by Design for the Environment (DfE) for each product that carries the DfE logo (Product Formulations)
- or
- Green Seal (GS-40) Certification (Floor Care)
- or
- Environmental Choice Certification (CCD-147) (Floor Care)



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## **☼ Documentation**

- A complete, signed affidavit from a certified testing laboratory stating that the cleaning product meets or exceeds the Performance and Health and Environmental Standards contained in this document**
- ☼ This was removed from the final RFP due to objections from vendors**



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- ❁ **RFP issued March 2007**
- ❁ **Contract (T2153) effective 8/15/07 to 8/14/08**
- ❁ **5 vendors listed on the contract**
- ❁ **<http://www.state.nj.us/treasury/purchase/noa/contracts/t2513.shtml>**



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## **UNDER EVALUATION**

- **STATE CONTRACT S-2513 FOR "EPCP"**
- **POWDERED PACKETS FOR**
- **GENERAL PURPOSE CLEANERS**
- **BATHROOM/TOILET BOWL CLEANER**
- **NEUTRAL FLOOR CLEANER**
- **GENERAL PURPOSE LIQUID CLEANER PACKETS**
- **CARPET PRE-SPRAY & SPOTTER**
- **DEODORANT SMOKE ODOR ELIMINATOR**



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## **BIOBASED PRODUCTS**

- **Composed in whole or in significant part of biological products of renewable domestic agricultural materials including plant, animal or marine materials.**
- **Excellent alternative/s to products made from petroleum.**
- **Domestically produced, support farmers, support U.S. Economy.**

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## **BIOBASED PRODUCTS**

- **Biobased market driven by policy changes**
- **Office of federal environmental stewardship throughout federal government (OFEE)**
- **Promoting sustainable environmental stewardship throughout federal government.**
- **EO 13101:Greening the Government through waste prevention “Recycling & Federal Acquisition”**
- **BB Products - defined as commercial or industrial product that utilizes biological product/s or renewable domestic agricultural or forestry material.**

**USDA Farm Bill Section 9002: This law requires federal agencies to purchase BB product, unless there is price, performance or availability reason not to.**

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## **BIOBASED PRODUCTS**

- **USDA Biobased Products & Bioenergy Coordination Council (BBCC):**
- **BBC established in 1995 Secretary of Agriculture to facilitate & promote, R&D commercialization & Marketing of Biobased products.**
- **Above policies have helped create a new line of Bio-Renewables.**
- **Biobased products will be a large part of the Janitorial / Sanitation industry.**

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## **BIOBASED PRODUCTS**

- **Benefits of Biobased Products**
  - **Biobased products are made with ingredients derived from domestic agricultural & forestry material, e. g ; soy, based solvent, vegetable derived detergent or cleaning agent from coconut oil.**
  - **Each ingredient comes from a renewable source. These renewable items provide products that are environmentally safer, increase rural and economic development, foster domestic production & reduce dependency on imported products.**

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## **BIOBASED PRODUCTS**

- **Benefits of Biobased Products**
  - **Scope of biobased products continues to grow & more areas are being defined & realized.**
  - **Several new items are being defined & realized all the time.**
  - **This offers a wide array of solutions for janitorial needs.**
  - **These products can be used in any public or private facility in place of petroleum based products.**
  - **Avoids health & environmental consequences of using fossil fuels.**
  - **The performance of these products parallels or exceeds their petroleum based counterparts.**

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## **BIOBASED PRODUCTS**

- **List of Biobased Products**
  - **Multi Purpose Cleaner**
  - **Glass Cleaner**
  - **Restroom Cleaner**
  - **Industrial Degreaser**
  - **Waterless Hand Cleaners**

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- **Executive Order 11**
  - Issued April 2006
- **Creates Director of Energy Savings - Treasury**
- **Requires implementation of program to:**
  - increase energy efficiency
  - reduce energy usage
  - improve the procurement of energy for all State facilities





# **NJ Environmentally Preferable Purchasing**

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## **Executive Order 11**

- **Requires each State agency to appoint/reappoint a coordinator from procurement staff to work with Director of Energy Savings**
  - **procurement of energy, energy efficient products and equipment, renewable energy products, recycled products, low toxicity products and alternatives to products that contain mercury, lead, or other persistent bioaccumulative toxics (PBTs), and other products manufactured through environmentally sustainable methods**
  - **products/services must be competitively priced**
    - **no more than 15% above comparable products/services**



# **NJ Environmentally Preferable Purchasing**

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## **☀ Legislation passed January 2008**

- Requires Treasury, in consultation with NJDEP, to develop, and update periodically, a list of sources for green product purchasing**
- Gives Treasury the authority to specify appropriate and reasonable standards for the identification of a list of sources for green products**
- Requires Community Affairs to develop training program for purchasing agents**
  - Being developed in Conjunction w/Rutgers**



# **NJ Environmentally Preferable Purchasing**

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## **⦿ Legislation passed January 2008**

- NJDEP and Treasury reviewed all State contracts to identify any green or environmentally preferable purchasing (EPP) components**
- Treasury website listing all green/EPP contracts -  
<http://www.state.nj.us/treasury/purchase/greencontracts.shtml>**
- NJDEP will prioritize select products/contracts for inclusion of additional/enhanced green/EPP components**

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## ☀ Green/EPP IT purchasing

- **P2 program working with NJDEP IT program to develop guidelines/standards for green/EPP IT purchasing**
  - **Reviewing existing contract language**
    - **Western States Contract Alliance (WSCA)**
  - **Reviewing NJ E-Waste Legislation**
    - **prohibits sale of electronic devices (includes IT equipment) that does not comply with EU Directive 2002/95/EC**
      - » **Directive prohibits products that contain lead, mercury, cadmium, hex chrome, polybrominated biphenyls or polybrominated diphenyl ethers**
      - » **are limited exceptions**
  - **Reviewing EPA's Electronic Product Environmental Assessment Tool (EPEAT) program**



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