

Isopropyl Alcohol (continued)

- May affect the liver and kidneys
- Is a flammable liquid and a fire hazard

Ammonia

- Contact can severely irritate and burn the skin and eyes
- Inhalation can irritate the nose, throat and lungs
- Repeated exposure may cause an asthma-like allergy and lead to lung damage

2-Butoxy Ethanol

- Exposure to can irritate the eyes, nose, mouth and throat and cause headache, dizziness, lightheadedness, confusion, and passing out
- May damage the developing fetus.
- may damage the testes (male reproductive glands)
- May damage the liver and kidneys

Sodium Hypochlorite

- Contact can severely irritate and burn the skin and eyes
- Can irritate the lungs causing coughing and/or shortness of breath
- can cause a build-up of fluid in the lungs (pulmonary edema)

The Green Seal Standard for Industrial and Institutional Cleaners (GS-37)

<http://www.green seal.org>

The Environmental Choice Program Certification Criteria Document (CCD-146)

<http://www.environmentalchoice.com/>

The US Environmental Protection Agency's Design for the Environment (DfE)

<http://www.epa.gov/dfe/pubs/projects/formulat/index.htm>

The Green Seal Standard for Floor-Care Products- Finishes and Strippers (GS-40)

<http://www.green seal.org>

The Environmental Choice Program Certification Criteria Document (CCD-147)

<http://www.environmentalchoice.com>

<http://www.state.nj.us/treasury/purchase/noa/contracts/t2513.shtml>

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What is Environmentally

Preferable Purchasing (EPP)?

EPP is the purchase of goods and services that “have a lesser or reduced effect on human health and the environment when compared with competing products and services that serve the same purpose.”

Why is EPP Important?

- **Cleaning products may adversely affect indoor air quality**
- **Studies are finding links between cleaning chemicals and asthma**
- **Cleaning products may be linked to chronic respiratory illness**
- **Reduced effects on human health may lead to a decrease in worker compensation claims and absenteeism in schools**

Executive Order 76 (EO 76)

- **Issued January 2006**
- **Requires all State Departments with purchasing power to procure and use cleaning products that minimize potential impacts to human health and the environment.**
- **Treasury, NJDEP and DHSS developed standards defining EPP cleaning products:**
 - **General purpose cleaners**
 - **Bathroom cleaners**
 - **Carpet cleaners**
 - **Glass cleaners**
 - **Floor care products**
 - **Finishers and strippers**

Products evaluated by independent third party

- 1. Green Seal**
- 2. Environmental Choice**
- 3. USEPA Design for the Environment**

Other important considerations:

- **Performance**
- **Toxicity**
- **Carcinogens, endocrine disruptors, reproductive toxins**
- **Combustibility, smog formation, ozone production,**
- **Packaging**
- **Labeling**
- **Training**

Common Ingredients in Household Cleaners and Potential Health Effects

Isopropyl Alcohol

- **Contact can irritate and burn the skin and eyes.**
- **Repeated skin exposure can cause itching, redness, rash, drying and cracking.**
- **Can irritate the nose and throat.**
- **Overexposure can cause headache, drowsiness, confusion, loss of coordination, unconsciousness and death**