

# Laundry Care Household

Standard: GS-48 Edition 1.5



## WHAT GREEN SEAL CERTIFIES

Green Seal's leadership standard means laundry care products are verified as safer for human health and the environment than similar products while delivering uncompromising performance.

## PERFORMANCE OF GREEN



Our standards ensure the product performs as well as or better than other nationally recognized or market-leading products of its type for its intended use. All Green Seal-certified products must demonstrate an effective level of cleaning performance via an objective, scientifically validated method conducted under controlled and reproducible laboratory conditions. Certain product types must meet performance thresholds following approved ASTM, American Association of Textile Chemists and Colorists, or Household and Commercial Products Association methods.

## SCIENCE OF GREEN – HEALTH



RESTRICTIONS TO PREVENT ADVERSE HEALTH EFFECTS	
Acute Toxicity (Oral)	LD50 > 5,000 mg/kg
Acute Toxicity (Inhalation)	LC50 > 20,000 ppmV at 1 hour
Dermal Toxicity (Skin)	LD50 > 2,000mg/kg
Skin and Eye Damage	pH of > 2.0 but less than 11.5; Must not be corrosive to skin or eyes
Skin Sensitization	Must not be a skin sensitizer
Skin Absorption	Sum of ingredients with skin notations restricted to <1%
Asthmagens	Prohibited above 100ppm (separate criteria for enzymes)
Respiratory Sensitizers	Prohibited above 100ppm
Ozone Depleting Compounds	Cannot be intentionally added at any level
Volatile Organic Compounds	VOC Content < level specified in CARB or standard for product type
Carcinogens	Cannot be intentionally added at any level
Mutagens	Cannot be intentionally added at any level
Reproductive Toxins	Cannot be intentionally added at any level
Neurotoxins / Systemic Toxins	Cannot be intentionally added at any level
Endocrine Disruptors	Cannot be intentionally added at any level
Alkylphenol Ethoxylates	Cannot be intentionally added at any level
2-Butoxyethanol	Cannot be intentionally added at any level
o-Phenylphenol	Cannot be intentionally added at any level
Triclosan	Cannot be intentionally added at any level
Halogenated Organic Solvents	Cannot be intentionally added at any level
Nitro-musks	Cannot be intentionally added at any level
Toxic Release Inventory Persistent, Bioaccumulative, and Toxic Chemicals	Cannot be intentionally added at any level
Polycyclic Musks	Cannot be intentionally added at any level
Colorants	Cannot contain intentionally added heavy metals
Phthalates	Cannot be intentionally added at any level and must not be intentionally added to primary packaging
Bisphenol A	Must not be intentionally added to primary packaging
Chlorinated Materials	Must not be intentionally added to primary packaging
Hexavalent Chromium	Cannot be intentionally added at any level and must not be intentionally added to primary packaging
Lead	Cannot be intentionally added at any level and must not be intentionally added to primary packaging
Mercury	Cannot be intentionally added to primary packaging
Selenium	Cannot be intentionally added at any level
Cadmium	Must not be intentionally added to primary packaging
Enzymes	Products containing enzymes must meet additional criteria
Microorganisms	Products containing microorganisms must meet additional criteria

Green Seal® is a global non-profit whose certification mark is a universal symbol that a product or service meets the highest benchmark of health and environmental leadership.

Learn more about our environmental leadership standards and 30,000+ certified products and services at [GreenSeal.org](https://www.GreenSeal.org).

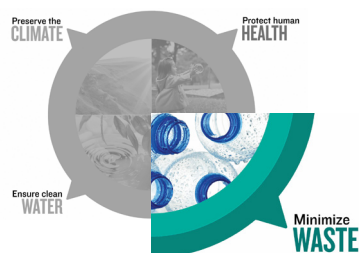
# Laundry Care (CONT'D)

## HOUSEHOLD

STANDARD: GS-48 EDITION 1.5



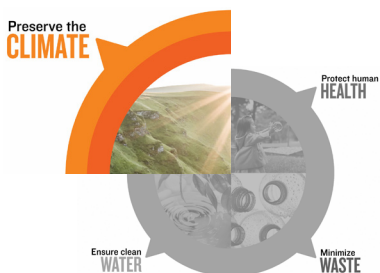
### SCIENCE OF GREEN – ENVIRONMENT



RESTRICTIONS TO PREVENT WASTE	
Primary Packaging	Must be either source-reduced, recyclable, contain at least 25% post-consumer material, or be a refillable package with an effective take-back program
Aerosol Packaging	Recycling programs must be available for packaging where product is sold
Use Labeling	Must have detailed instructions for proper use to minimize waste
Recycling Labeling	Must be marked with the appropriate Resin Identification Code, if plastic, and have clear recycling instructions for disposal



RESTRICTIONS TO PREVENT ADVERSE ENVIRONMENTAL EFFECTS	
Acute Toxicity to Aquatic Life	LC50 > 100mg/L for algae, daphnia, or fish
Aquatic Biodegradability	Each organic ingredient must readily biodegrade
Bioaccumulating Compounds	Prohibited above 100ppm
Eutrophication	Sum of total phosphorus restricted to < 0.5%
Optical Brighteners	Prohibited above 100ppm



CRITERIA THAT HELP PRESERVE THE CLIMATE	
Many of the standards for human health, minimizing waste and ensuring clean water also help preserve the climate:	
<ul style="list-style-type: none"> <li>Content limits on volatile organic compounds (VOCs)</li> <li>Limit on phosphorus</li> <li>Prohibition on ozone depleting compounds</li> <li>Cold water use instructions</li> </ul>	<ul style="list-style-type: none"> <li>Prohibition on halogenated organic solvents</li> <li>Reduced / recycled packaging</li> <li>Concentrated products</li> <li>Verified performance in cold water</li> </ul>

### A GREEN YOU CAN TRUST

All Green Seal certified products must meet industry best practices for Quality and Safety.



**Combustibility**



**Fragrances**



**Animal Testing**



**Proper Use Training**



**Labeling**



**Safety Data Sheets**

Our standards are referenced by the leading green building certification programs.



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