

PROGRAMA DE CALIDAD PARA LA CADENA DE QUÍMICOS

Sello Green Seal: oportunidad en los mercados internacionales para el sector aseo industrial y doméstico

UN PROGRAMA DE:







Departamento Federal de Economia, Formación e Investigación DEFI Secretaría de Estado para Asuntos Económicos SECO



















ORGANIZACIÓN DE LAS NACIONES UNIDAS PARA EL DESARROLLO INDUSTRIAL

La ONUDI es la agencia especializada de las Naciones Unidas que promueve el **desarrollo industrial** para la reducción de la pobreza, la globalización inclusiva y la sostenibilidad ambiental. Sus cuatro ejes estratégicos son:

- 1. Crear prosperidad compartida
- 2. Fomento de la competitividad económica
- 3. Salvaguardar el medio ambiente
- 4. Fortalecer el conocimiento y las instituciones













Somos parte del Programa Global de Calidad y Normas (GQSP)

Programa a gran escala, diseñado para promover el **desarrollo comercial de los países priorizados** a lo largo de cadenas de valor específicas, mediante:



Fortalecimiento de actores de la cadena de valor

Mejora de la capacidad de cumplimiento de requisitos internacionales y normas de calidad a través de capacitación especializada, creación de capacidades y habilidades técnicas, fortalecimiento de redes de clústeres y consorcios enfocados en temas de calidad, así como instituciones de apoyo.

Mejoramiento de la Infraestructura de la calidad

Fortalecimiento de instituciones clave e instituciones de apoyo público-privadas relevantes, a través del desarrollo de capacidades, la adopción de mejores prácticas, el desarrollo de competencias y la implementación de sistemas de gestión para garantizar la calidad y el reconocimiento internacional de sus servicios.

Promoción de la cultura de calidad

Divulgación de conocimientos y buenas prácticas internacionales, asesoría para el desarrollo de políticas y socialización con consumidores y otros actores.











GQSP Colombia: Programa de Calidad para la Cadena de Químicos



Fomentar la integración de Colombia en los sistemas de comercio regional y multilateral, por medio del fortalecimiento del **Subsistema Nacional de Calidad (SICAL)** en el marco de la **Cadena de Químicos** y el aumento y mejora de las capacidades de las **Mipymes** para cumplir con requisitos técnicos, normas internacionales de calidad, normas privadas y de sostenibilidad, necesarias para la facilitación del comercio.

4

Años (2019-2022)

3.1

Millones de Euros

Un programa de:









Con el apoyo de:



















La cadena de valor de la industria química











Química Básica

Agroquímicos

Plásticos y Pinturas

Cosméticos y Aseo

Farmacéuticos

- ☐ Gran crecimiento en términos de producción y valor agregado durante los últimos periodos.
- ☐ El país cuenta con capacidades críticas de producción en algunos de sus sectores.
- ☐ Insumos más sofisticados que el promedio de la canasta exportadora (CONPES 3866/16).
- ☐ Retos: Recomendaciones OCDE, adopción SGA, registros nacionales de sustancias químicas, inminente aumento en la demanda de servicios de laboratorio, etc.
- Adopción de prácticas de sostenibilidad y producción limpia.





Confederación Suiza

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¿Cómo lo hacemos?











Fortalecimiento de actores de la cadena de químicos

Mejoramiento de la capacidad de las **mipymes de la cadena de químicos** para cumplir requisitos internacionales, normas de calidad y de sostenibilidad a través de:

Desarrollo de guías, estudios, documentos y herramientas sobre cumplimiento de normas internacionales de calidad y sostenibilidad



Programas de Apoyo Técnico (PAT) a la medida para la implementación de normas de calidad, Sistema Globalmente Armonizado, criterios de sostenibilidad y química verde



Programas de formación especializada en requisitos técnicos, normas de calidad y sostenibilidad

+2400 +400

Empresas capacitadas

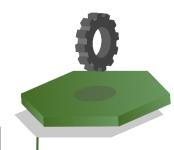
+4000 Personas

capacitadas

Empresas Asistencia técnica

50

Publicaciones desarrolladas



Fomento de encadenamientos productivos













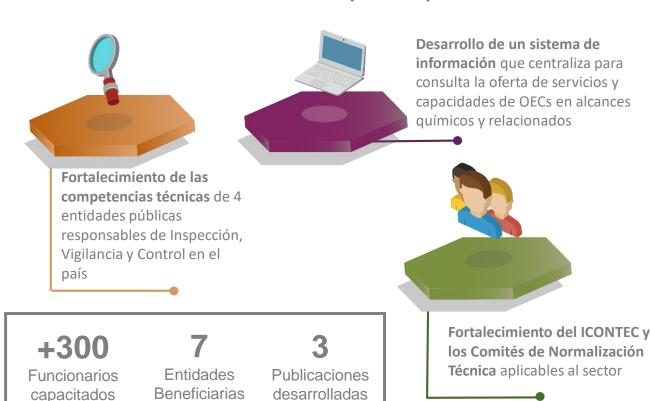
Mejoramiento de la infraestructura de la calidad

Fortalecimiento de Instituciones publicas que son pilares del Subsistema Nacional de la Calidad en Colombia, así como de prestadores de servicios de evaluación de la conformidad que brindan apoyo a la cadena de químicos.

Subsistema Nacional de la Calidad (SICAL)

Nuevo esquema de acreditación con reconocimiento internacional para productores de materiales de referencia Fortalecimiento del Instituto

Fortalecimiento del Instituto
Nacional de Metrología para
mejorar la provisión de
materiales de referencia













2

Mejoramiento de la infraestructura de la calidad

Fortalecimiento de Instituciones publicas que son pilares del Subsistema Nacional de la Calidad en Colombia, así como de prestadores de servicios de evaluación de la conformidad que brindan apoyo a la Cadena de Químicos.

Laboratorios de Ensayo / Organismos Evaluadores de la Conformidad





+500

Laboratorios capacitadas

30

Laboratorios asistencia técnica

+2600

Personas capacitadas

Programas de Apoyo Técnico para el fortalecimiento de laboratorios de ensayo, implementación de sistemas de acreditación (ej. ISO 17025, ISO 17034, BPL OCDE) y métodos de ensayo requeridos por la industria química













Promoción de la cultura de calidad

Fomento de la cultura de calidad entre actores públicos y privados, a través de un mayor conocimiento de los beneficios de la calidad en el desarrollo productivo y la protección del consumidor.









Secretaria de Estado para Asuntos Económicos SECO





Programas de apoyo técnico a la medida

1 Implementación Sistema Globalmente Armonizado (Marzo 2020-Julio 2021)



21 Empresas (Grandes y mipymes)



Pinturas, agroquímicos, química básica

Piloto de Sostenibilidad (Enero 2021- Sept 2022)



5 Empresas (Grandes y mipymes)



Cosméticos, aseo, pinturas, agroquímicas, lubricantes

5 Implementación Sellos Verdes (Mayo2021- Sept 2022)



8 Empresas (Mipymes)



Cosméticos, Aseo, Ingredientes Naturales

Revisión Etiquetado EEUU (Marzo 2021-Julio 2021)



11 Empresas (Mipymes)



Cosméticos

Soportes técnicos Ingredientes Naturales (Mayo 2021-Abril 2022)



5 Empresas (Mipymes)



Ingredientes naturales

6 Metrología Legal (Enero 2022-Junio 2022)



7 Empresas (Mipymes)



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4 empresas



Asesoría especializada en implementación sello GREEN SEAL (4 empresas)



Revisión técnica de un (1) producto: Requisitos salud y ambientales, etiquetado, proceso, empaques.



Apoyo en la certificación seleccionada por la empresa



Financiación hasta doce (12) millones de pesos colombianos para ensayos de laboratorio



Impulso acceso a mercados de productos de aseo a mercados como EEUU y UE



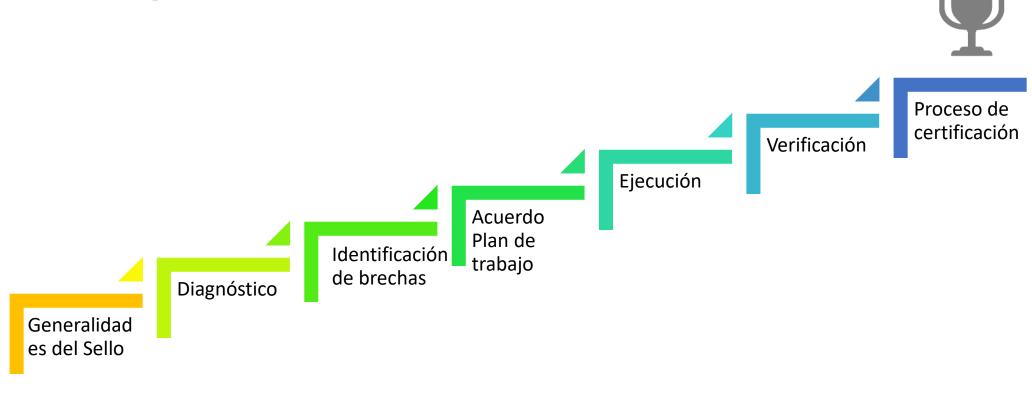


Formación e Investigación DEFI Secretaría de Estado para Asuntos Económicos SECO





Metodología









Secretaria de Estado para Asuntos Económicos SECO

Formación e Investigación DEFI





ACOMPAÑAMIENTO TÉCNICO

- Revisión de requisitos técnicos.
- Revisión de fórmula cualicuantitativa
- Revisión de etiquetado.
- Revisión de contratos proveedores/logística materias primas
- Revisión Trazabilidad del proceso productivo (documentación)
- Revisión de sustancias permitidas y prohibidas.
- Revisión de requisitos de empaques:

03 04 01 02 02

SERVICIOS DE ENSAYO

- Contratación por parte de ONUDI
- Muestras de producto y/o materias primas en tiempos acordados

MONITOREO

- Diagnóstico de cumplimiento
- Indicadores de gestión
- Indicadores de impacto
- Seguimientos planes de trabajo-cierre brechas
- Visitas a las instalaciones
- Revisión de documentación de producto y proceso
- Ajustes de proceso, producto y gestión.

CERTIFICACION

- Contratación por parte de ONUDI
- Pre auditoría antes de certificación oficial
- Acompañamiento proceso certificación





MAKE HEALTHIER, SAFER CHOICES WITH CONFIDENCE

Webinar Presenter: Green Seal



Mac Clevenger

Washington, DC Office

National Partnerships Manager

Email: pclevenger@greenseal.org



Output Global nonprofit

- **Output** The symbol of health & environmental leadership
- Product certification

Healthier spaces through greener products and practices

Green Seal is Global

36,000+ certified (by SKU)

Across 400 Product Types

Specified in hundreds of purchasing policies and RFPs

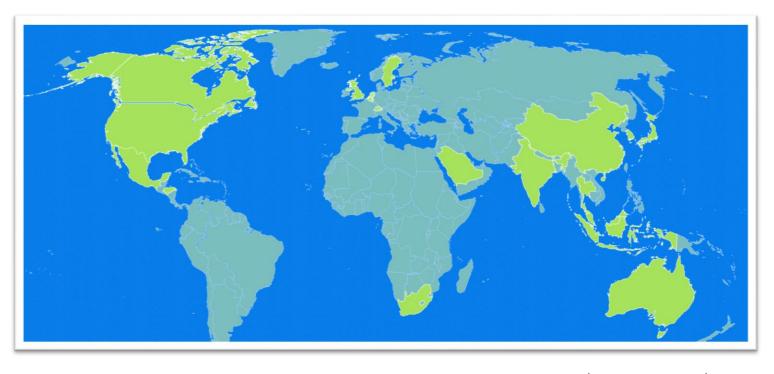
Federal governments

State governments

Municipalities

& Schools

Countries producing Green Seal-certified products



www.impact.greenseal.org

Standard Development & Revisions

- Develop standard within an open & transparent process
- Make decisions based on best available science.
- Continuous Improvement of Standards:
 - → Monitor Market and Supply Chains.
 - → Solicit Input.
 - → Publish Revision Proposal Science-Based Determinations
 - → Attain general stakeholder agreement and support
 - ✓ Publish improved standard

Green Seal's Core Requirements

It Works. ✓ Verified for effective functional performance	
None of These in the Formula:	
Carcinogens. Mutagens. Reproductive toxins. Asthmagens.	Outcomes:
APEOs	
Formaldehyde releasers.	Safer Supply Chains.
Product can't be damaging to skin or eyes.	
Must have low VOCs	Protecting the Product User.
Must be non-toxic to humans	
Must not harm aquatic life	Healthier Indoor Spaces.
Limits on phosphorus	·
Product must biodegrade & ingredients must not bioaccumulate	Reduced Product Waste.
Product must be sold with use and disposal instructions	Roddod Frodd Fractor
Packaging is recyclable / recycled / minimized	

Key Impact Areas

Protect Human Health	Minimize Waste	Ensure Clean Water	Preserve the Climate
Toxicity (Ingestion, Inhalation,	Recovered materials	Acute aquatic toxicity	Volatile organic compounds
Dermal)	Recyclability	Aquatic eutrophication	(VOCs)
Carcinogens	Product performance	Aquatic biodegradability	Energy use
Mutagens		Bioaccumulation	Mineral extraction
Reproductive Toxins		Water use	Concentrated products
Neurotoxins			
Endocrine Disruptors			
Asthmagens			
Volatile Organic Compounds			
(VOCs)			
Skin Sensitization			
Particulate Matter			
Ionizing Radiation			
Combustibility and Flammability			

Health & Environmental Targets



United Nations 2030 Agenda for Sustainable Development



United Nations 2030 Agenda for Sustainable Development



RESPONSIBLE CONSUMPTION

AND PRODUCTION

Connecting purchasers to greener, healthier products



Reaching consumers through the businesses serving them

Cleaning standards matter more now than ever







Exciting Initiatives







HEALTHY SCHOOLSCAMPAIGN





<u>— All Best Sellers Customer Service Prime ▼</u>

New Releases Pharmacy Books Today's Deals Fashion Kindle Books Toys & Games Gift Cards Amazon Home Registry Sell

Shop w

1-16 of 23 results for "cleaners household"

Sort by: Price: Low to H

Eligible for Free Shipping

FREE Shipping

All customers get FREE Shipping on orders over \$25 shipped by Amazon

Department

Health, Household & Baby Care Home & Kitchen Industrial & Scientific



EcoMe Stainless Steel Polish, Multi-Surface Cleaner, Lemon Fresh, 16 oz 16 Fl Oz (Pack of 1)

**** × 40

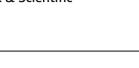
\$9²⁸ (\$0.58/Fl Oz) \$9.99

vprime Get it as soon as Sat, Jun 19

FREE Shipping on orders over \$25 shipped by Amazon

Climate Pledge Friendly

See 1 certification ~







Get a \$6 Prime Video credit when you spend



PRODUCT CERTIFICATION (1)



Green Seal

More Buying Choices \$13.07 (4 new offers)

Climate Pledge Friendly

See 1 certification ~

& Protector with Scotchgard, Ready-to-Use with Flip-Top Cap



Betco, BET3360400EA, Green Earth Peroxide Cleaner, 1 Each, Clear

WE CERTIFY



Informational Tools for Safer Cleaning

Safer Disinfecting Ingredients



When it comes to disinfectants that are effective against the virus that causes COVID-19, some active ingredients are safer than others. While EPA does not allow third-party certifications for disinfectants, Green Seal has curated U.S. EPA's List N: Disinfectants for Coronavirus to help you identify safer ones.

SAFER ACTIVE INGREDIENTS

Green Seal recommends choosing List N disinfectants with the following active ingredients. Unlike other active ingredients commonly found in disinfectants, these ones are not linked to asthma, cancer, endocrine disruption, DNA damage or skin irritation.

It is also important to look at the safety of the overall disinfectant product, including inactive ingredients. The product safety data sheet (SDS) provides information on whether the overall product is classified as hazardous according to the Occupational Safety and Health Administration.

hydrogen peroxide**
citric acid
lactic acid
ethyl alcohol also called ethanol or just alcoho
isopropyl alcohol
peroxyacetic acid**

designated AOEC authmagen, so avoid products that contain both

PRODUCTS WITH SAFER ACTIVE INGREDIENTS

Green Seal has compiled a list of EPA List N disinfectants that use safer active ingredients. This is only a partial list; check List N for other options. As always, read the label carefully and follow the directions for safe, effective use.

- EPA Registration No. 74559-8 + 5-minute contact time

- Bona STL Disinfecting Cleaner
- o CleanCide EPA Registration No. 34810+35 + 5-minute contact time
- Diversey's Oxivir TB Ready-to-Use Liquid
- Ecolab's Peroxide Multi Surface Cleaner and Disinfectant
- ECOS Multi-Purpose Disinfectant & Sanitizer, fresh citrus
- ECOS Multi-Purpose Disinfectant Wipes, fresh citrus
- ECOS PRO Multi-Surface Disinfectant & Sanitizer, fresh citrus
- o Facility+ RTU

- Force of Nature Activator Capsule
- o Hydra EPA Registration No. 10772-21 + 5-minute contact time
- Lemi Shine Disinfecting Wipes
- PURELL Healthcare Surface Disinfectant
- PURELL Professional Food Service Surface Sanitizer
- PURELL Professional Surface Disinfectant
- o UrthPRO
- EPA Registration No. 84368-1 + 30-second contact time
- Viking Pure Disinfectant
- Wexford Disinfectant Wipes
- Windex Disinfectant Cleaner

Learn more about our environmental leadership standards and 30,000+ certified products at GreenSeal.org.

Healthy Green Schools & Colleges



Guidelines for COVID-19 Cleaning and Disinfection

Effective and responsible cleaning and disinfecting practices for staff and student health and safety



OUR CLEANING SERVICE IS GREEN SEAL® CERTIFIED

Cleaning Matters Now More Than Ever

A HIGHER STANDARD OF CLEAN

Broad-spectrum disinfectants can help prevent the spread of pathogens via surfaces. Green Seal certified cleaning services disinfect using EPA-registered products and devices that are proven effective. Green Seal® certification means a respected, independent authority has verified that all the cleaning products, practices and procedures being used here meet the highest industry standards. When it comes to disinfecting areas or surfaces where pathogens can collect,

attention to details like dilution rate and contact time makes all the difference. To deliver maximum protection, our cleaning team prepares and uses all cleaning solutions exactly according to label directions.

A COMMITMENT TO SAFEGUARD YOUR SPACE

We chose a Green Seal® certified cleaning program so you can be confident of the highest level of professionalism. Rest assured that extra care is taken with the cleaning and disinfecting of frequently touched surfaces and high traffic areas. Green Seal's extensive training requirements increase the skill level of our cleaning staff and boost employee morale and engagement. Cleaning services that have met the Green Seal standard report enhanced staff retention and the ability to attract more qualified employees.

POWERFUL CLEANING... DONE SAFELY

Custodial workers are on the front lines of caring for the spaces where we work, live and learn. Did you know custodial workers hold one of the top-5 jobs in the nation for employee injuries? And custodial workers are twice as likely to experience occupational asthma compared to other workers.

The health risks are even greater when custodial workers are charged with disinfecting and cleaning areas or surfaces where pathogens can collect. With extensive training and safety requirements, Green Seal certified cleaning services support healthier, safer jobs for our custodial workers. We've put their safety first, which means our custodial teams can do their best to protect your health and wellbeing.



CERTIFIED CLEANING SERVICE MEANS:

- ✓ Uncompromising cleaning performance.
- Safer indoor air.
- Improved occupant
- Decreased risk of occupant asthma attacks.
- Training and safety precautions for custodial workers.
- Minimal waste and packaging.
- Reduced environmental impact of the building.

www.GreenSeal.org | 202.872.6400

Hand Sanitizers Professional & Household

Standards: GS-41 Edition 2.3 and GS-44 Edition 4.2



WHAT CERTIFICATION MEANS

Green Seal's leadership standard means an alcohol-based hand sanitizer product is verified as safer for human health and the environment than similar products while providing uncompromising hand hygiene performance.

PERFORMANCE OF GREEN



All Green Seal certified products must demonstrate a high level of cleaning performance through objective, scientifically validated methods conducted under controlled and reproducible laboratory conditions. Green Seal certified hand sanitizers are verified for performance based on in-vitro testing for antimicrobial activity using a time kill procedure. Acceptable methods for in vitro testing include ASTM E2783 and ASTM E2315.

Green Seal certified hand sanitizers are verified for meeting USP purity levels, inclusion of a denaturant, and are performance tested according to US FDA's current Good Manufacturing Practices (cGMPs).

SCIENCE OF GREEN - HEALTH



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.

Acute Toxicity (Oral)	LD50 > 5,000 mg/kg
Acute Toxicity (Inhalation)	LC50 > 20 mg/L at 1 hour
Carcinogens	Must be free of, above 100 ppm.
Reproductive Toxins	Must be free of, above 100 ppm.
Mutagens	Must be free of, above 100 ppm.
Skin and Eye Damage	Must not cause skin corrosion or serious eye damage. Must have pH of > 2.0 but less than 11.5
Skin Sensitization	Must not cause allergic response following skin contact, according to OECD LLNA testing.
Skin Irritation	Must not cause skin irritation, as defined by GHS (Categories 2 or 3)
Endocrine Disruptors	Must be free of above 100 ppm, as defined by EPA Tier 1 Screening.
Asthmagens	Must be free of above 100 ppm. Exemption: triethanolamine (TEA) is allowed for gel products.
2-butoxyethanol	Must be free of, above 100 ppm.
Alkylphenol Ethoxylates	Must be free of, above 100 ppm.
Bisphenol A	Must be free of above 100 ppm, and must not be intentionally introduced to primary packaging
Chlorinated Materials	Must not be intentionally introduced to primary packaging
Colorants	Must be FDA-approved for ingestion, or a natural, or free of heavy metals
Ethoxylated Chemicals	Must be free of above 100 ppm.
Formaldehyde Donors	Must be free of above 100 ppm.
Halogenated Organic Solvents	Must be free of above 100 ppm.
Hexavalent Chromium	Must be free of above 100 ppm and must not be intentionally introduced to primary packaging.
Lead	Must be free of above 100 ppm and must not be intentionally introduced to primary packaging.
Mercury	Must be free of above 100 ppm and not be intentionally introduced to primary packaging
Nitrilotriacetic Acid	Must be free of at the ingredient level
Nitro-Musks and Polycyclic Musks	Must be free of at the ingredient level
Parabens	Must be free of at the ingredient level
PFAS	Must be free of above 100 ppm.
Phthalates	Must be free of at the ingredient level and not be intentionally introduced to primary packaging
Selenium	Must be free of at the ingredient level

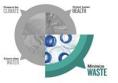
30,000+ certified products and services at GreenSeal.org.

Learn more about our environmental leadership standards and

Hand Sanitizers (CONT'D) **PROFESSIONAL & HOUSEHOLD**



SCIENCE OF GREEN - ENVIRONMENT



Plastic	Must be either source-reduced, recyclable, contain at least 25% post- consumer material or a refillable package with an effective take-back program
Non-Plastic	Must be either recyclable or contain at least 25% post-consumer material
Aerosol Cans	Packaging is prohibited
Recycling Labeling	Plastic packages must be marked with appropriate Resin Identification Code



Acute Toxicity to Aquatic Life	Must have LC50 > 100 mg/L, at rinse-off dilution level
Aquatic Biodegradability	Organic compounds must exhibit biodegradability if greater than 100 ppm after rinse-off dilution
Bioaccumulation	Must be free of ingredients that bioaccumulate, at rinse-off dilution level
Eutrophication	The product shall not contain phosphorus at more than 0.2% by weight



Several of the criteria for protecting human health, minimizing waste an ensuring clean water also help preserve

- · Free of lead and other heavy metals
- · Free of mercury
- Must have source-reduced packaging or recyclable and 25% post-consumer packaging

A GREEN YOU CAN TRUST

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









Combustibility

Fragrances

Animal

cGMP Verification

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







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.





Tork Alcohol Gel Hand Sanitizer -400016 - Disinfectant for Hands - for S1 Dispenser Systems - 1 x 33.8 fl oz



Misc.

\$25⁶⁷ \$65.52

Save more with Subscribe & Save

Get it as soon as **Thu, Apr 1** FREE Shipping by Amazon

Climate Pledge Friendly

HAND

See 1 certification ~

We've made it easier to discover products with sustainability certifications, as part of our commitment to help preserve the natural world. Time is fleeting. Learn more

PRODUCT CERTIFICATION (1)



nced 75% Sanitizers

Certifying

Your

Products





Mac Clevenger pclevenger@GreenSeal.org





MAKE HEALTHIER, SAFER CHOICES WITH CONFIDENCE