Linen, Uniform and Facility Services

Pioneers, Progressives in Sustainable Laundering

City of Los Angeles Sanitation – Green Laundry Webinar February 15, 2023



Linen, Uniform and Facility Services Industry

- Supplies, launders and maintains textiles for businesses, government, other organizations
- NAICS 812331 Industrial laundries (uniform rental)
- NAICS 812332 Linen suppliers (healthcare, foodservice, hospitality)

TRSA – Since 1912 (110+ Years)

- The industry's only U.S. advocacy group (with worldwide membership)
- Promotes economic and environmental benefits of reusable textiles
- Increases the industry's productivity, sustainability, safety and professionalism

TRSA Members

- 200+ linen, uniform and facility services companies operating 1,500+ facilities
- 120+ supplier partner companies serving these operators





Positive Economic/ Environmental Impacts of Linen, Uniform and Facility Services





Carbon Footprint: One Hotel Bed vs. 4 Consumer Activity Impacts





Laundry at Its Most Economical

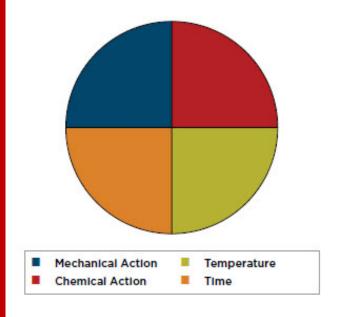


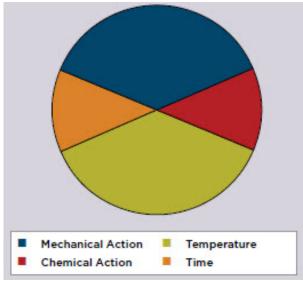


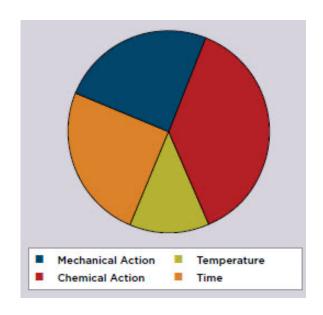
- High-Capacity Machinery
- Resource Conservation
- Utility Savings



Variable Wash Formulas







Four Formula Factors

Tunnel Washer

Lower Temperature Formula



Certifying Linen & Uniform Operations Sustainability

Thresholds for water and energy use per pound

On-site inspection

Best practices: some are more heavily weighted

ASTM International Standard







Resource Recovery Required

Boiler heat recovery
Direct-fired hot water heater
Energy audit
Energy efficient lighting and/or skylights
Fleet vehicle route optimization
Low temperature detergents
Nonylphenol ethoxylate (NPE) free
detergent
Preventative maintenance on boiler
Preventive maintenance on water heater
Wastewater heat recovery





Certifying Hygiene from Laundry to Customer









Ensures environmentally sound processes clean and deliver textiles at appropriate cleanliness levels for various commercial uses



Committed to Cleanliness Thresholds

All Certifications:

USP 62 – Absence of specified microorganisms RODAC Plate Test – Yeast and mold of 20 cfu per square decimeter or lower

Healthcare:

RODAC – Total aerobic microbial count (TAMC) of 20 cfu or lower

Food Safety, Food Service, Hospitality RODAC – TAMC of 50 cfu or lower Must conduct HACCP hazard analysis











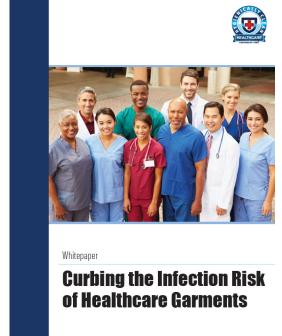
Better Hygiene than Home Washing

Linen and uniform service washing machines attain higher temperatures than home washers

Home washing more likely to use low water temperature

Uncertainty that employees who wash at home will follow prescribed instructions

Research finds bacterial contamination





Working with EPA to Self-Regulate, Curb Discharges to Sewers

Categorical Standards (Industrial Effluent Guidelines Program)

EPA proposed rules specifically for the industry's discharges and withdrew them – first time ever an industrial category was removed from this program

Safer Detergents Stewardship Initiative

TRSA received SDSI Champion status for actively encouraging the use of surfactants: compounds that break down break down quickly to non-polluting compounds and help protect aquatic life in both fresh and salt water.

Voluntary NPE Phase-Out

Without subjecting to regulation, TRSA members have almost eliminated nonylphenol ethoxylate surfactants (not a safer surfactant)



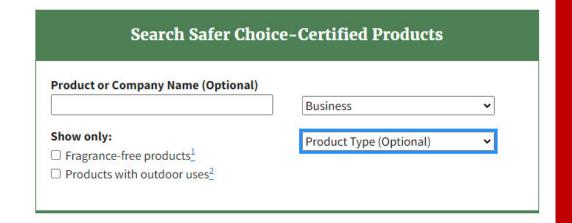


EPA Safer Choice: https://www.epa.gov/saferchoice/products

Two of the seven TRSA Supplier Partner members providing wash chemistry show results from this search

Possible product categories for laundry:

- Fabric softeners
- Laundry detergent boosters
- Laundry detergents
- Pre-treaters





TRSA on Microplastics and PFAS

Textile manufacturer liaison

Determining extent to which currently used products contain PFAS Monitoring options for technology improvement/fabric variation to reduce microplastics PFAS task force providing compliance-related information to laundry operators

Advocacy

TRSA California counsel monitoring microplastics legislation

- Three bills that would have targeted industrial launderers were withdrawn
- Bill reintroduced that would require filters in all washing machines
 Building awareness of industry's minimal effluent compared with home laundry

Informing laundries

Presentations, webinar on consultants' sampling of PFAS content from laundry discharges Connecting laundries to public, private resources forecasting how PFAS may be regulated



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