

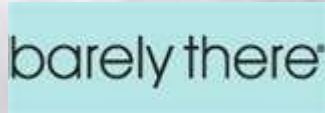
A close-up, high-resolution photograph of white fabric, likely cotton or a similar textile, showing the intricate weave and texture. The fabric is draped, creating soft folds and shadows that emphasize its tactile quality. The lighting is even, highlighting the fine details of the fibers.

# Green Chemistry and Commerce Council

Ann Arbor, Michigan

May 9-11, 2012

**HANES** *Brands Inc*



**HANES** Brands Inc





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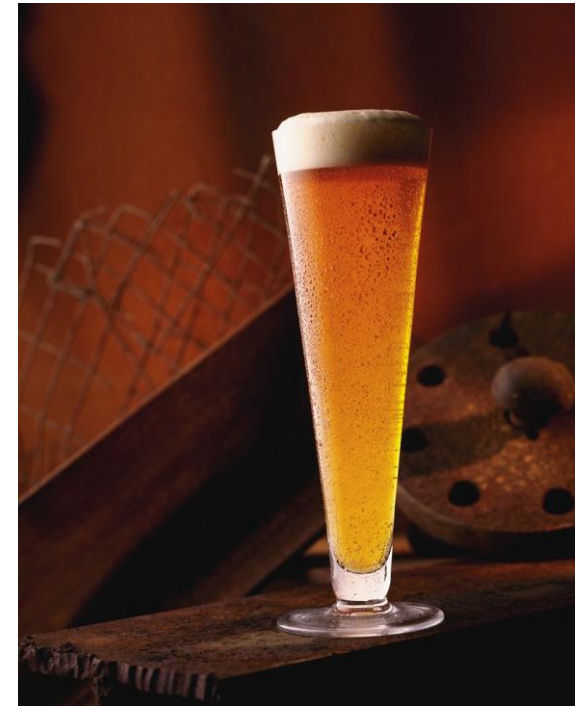


**HANES** *Brands Inc*

# Background

## Brewing and Aluminum Extrusion

- ✿ Air Emissions
- ✿ Wastewater Categorical's
- ✿ Hazardous Wastes
- ✿ FDA
- ✿ Flavor Impacts
- ✿ Chemical Management System



# The Company

## ✿ SARA LEE Hosiery CA 1990's

Division of SARA LEE Corporation

Manufacturing in the US

International Sourcing

**Quiet Leader**

## ✿ HANESbrands Inc.

Spun off in 2006

Consolidated All Textile Divisions

## ✿ Current Structure

✿ **International Manufacturing**

✿ Owned Manufacturing – 90% Outside of the US

✿ Sourcing – 20% of Total Volume



# Chemical Management Program

## SARA LEE Hosiery

### # Environmental Management Philosophy

### # Chemical Management System

✦ Corporate Approval of ALL Chemicals

✦ Owned Facilities ~ 95% of Production

✦ 1991

✦ Unpublished RSL

- Regulatory Compliance
- Consumer Safety



# Chemical Management System – Owned Sites

- ✿ Maintain web-based Corporate chemical database.
- ✿ Screen all chemicals for consumer safety and environmental protection prior to use or integration into product design and/or manufacturing.
- ✿ Standardize chemical management systems in all manufacturing plants.
- ✿ Continuous improvement to more sustainable chemistries.

# Challenges and Opportunities

## ✿ Complete and Accurate Chemical Ingredient Data

### ✿ Reduction in Chemical Suppliers

- Proven Companies
- Partnership

### ✿ HBI Required Data Form

- ATMI
- VPEP

### ✿ Languages





# Challenges and Opportunities

## ☀ Continuous Improvement

- ☀ Regulatory Compliance of Product
- ☀ Facility Environmental Standards
- ☀ Improved Environmental Sustainability
- ☀ Initiate Actions in Advance of Legislative Initiatives
- ☀ Emerging Health and Environmental Data
- ☀ HBI Developed Data
- ☀ HBI Corporate Policies

# Supply Chain Management

- ✱ Global

- ✱ Supplier Lack of Technical Resources

- ✱ HBI Initiative and Evolution

  - ✱ Contracts

  - ✱ Failure to Comply

  - ✱ “Sharing” of Environmental Programs

  - ✱ Chemical Management Support

  - ✱ Third Party Chemical Audits

  - ✱ Third Party Environmental Audits

  - ✱ Environmental Training

# Supply Chain Chemical Audits

- ✿ **Require List of All Chemicals on Site**
- ✿ **Review and MSDS's for All Chemicals**
- ✿ **Reach Out to Chemical Suppliers**
- ✿ **Document Chemicals and Ingredients – Web-Based**
- ✿ **Tour the Site for Chemicals not Documented**
- ✿ **Notify Management of Chemicals of Concern**
- ✿ **Recommend Alternative Chemical Improvements**

# The Industry and HBI

## ✿ American Apparel and Footwear (AAFA)

<https://www.wewear.org/>

✿ Restricted Substance List

✿ Environmental Council

✿ Training

## ✿ Sustainable Apparel Coalition (SAC)

<http://www.apparelcoalition.org/>

## ✿ National Association of Environmental Managers

# Keys to Success

## ✿ Cross Media Technical Expertise

## ✿ Partnerships

- ✿ Corporate Initiative
- ✿ Chemical Suppliers
- ✿ Sourcing Facilities
- ✿ Trade Associations
- ✿ Environmental Associations
- ✿ Technical Contacts In Other Industries
- ✿ Consultants
- ✿ Peers



# Keys to Success

## ✿ Critical Aspects

✿ Patience

✿ Education and Support

✿ Cooperation

✿ Visibility

✿ Consistency

✿ Diligence



# Questions



What is your company doing to “green” the textile industry?

How is your company collaborating with your supply chain/other brands to make textile products more sustainable?

What are the most important factors that have prompted these industry collaborations?

What are the key ingredients needed for effective collaboration to occur?

How can the lessons learned from these collaborative efforts be applied in other industry sectors?

As we discussed, here is the order of speakers and topics to be covered:

- Sam - general history/overview of the industry and greening efforts, including a discussion of the Oeko-Tex® certification
- Tommy – the approach (and advantage) of Hanes and their mostly owned supply chain in greening products and the production process; Tommy will also discuss Hane's hands-on chemical audits of their supply chain and the importance of due diligence