How to Add Value to Shea Butter?

Margaret Haven, Speaker
AGENDA

- Introduction
- Purpose of the Workshop
- Ingredients Selection and Blending
  - Raw Material
  - Packaging
- Ingredients Evaluation and Testing
  - Raw Material
  - Packaging
- Mixing and Packaging Fundamentals
- Final Product
- Demo – Show and Tell
INTRODUCTION

Educational Studies

• BS Food Science and Technology minor in Chemistry
• Nutritional Studies
• Cosmetology
• Herbal Science

Work Experiences

• Over twenty five (25) years in the cosmetic, food and educational arenas as a
  – Cosmetic Scientist
  – Food Scientist
  – Plant Manager
  – Quality Assurance and Control Manager
  – Microcomputer Specialist
  – Trainer/Educator

Margaret Haven
Cosmetic Product Developer

TecheeSupport
The purpose of this workshop is to give exposure to the fundamentals of researching, developing and quality assurance and control processes in manufacturing various Shea Butter products. This course is designed to provide the attendee a platform for producing various Shea Butter products.
Marketing Strategy
INGREDIENTS SELECTION AND BLENDING
When Making a Product Consider... Latest Regulatory Requirements

• Food Drug and Cosmetic
  • [www.fda.gov](http://www.fda.gov)

• Any Local State, County requirements i.e.
  • California Safe Cosmetic Program (CSCP) -
    [http://www.cdph.ca.gov/programs/cosmetics/Pages/CosmeticsCompanies.aspx](http://www.cdph.ca.gov/programs/cosmetics/Pages/CosmeticsCompanies.aspx)

• Watch groups i.e.
  • Environmental Working Group (EWG) -
    [http://www.ewg.org/](http://www.ewg.org/)
When Making a Product Consider…..

- Target Market
- Latest Trend
- Cost
  - High end
  - Middle end
  - Low end
When Making a Product Consider
Product Expected Functions

• Moisturizer
• Firming
• Relaxing
• Exfoliating
• Sun-Screen
• Sun-Block

• Stimulating
• Peeler
• Healer
• Protector
• Trendy
• Toner
When Making a Product Consider.....Types of Raw Ingredients

- Moisturizers
  - Humectants
  - Barriers
- Emulsifiers
- Emollients
- Thickener

- Waxes
- Oils
- Active ingredients
  - Surfactants
  - Anti-oxidants
  - pH adjusters
  - Additives
When Making a Product Consider.....Types of Raw Ingredients

Preservatives

LET'S TALK
When Making a Product Consider.....

• Product’s odor
• Product’s final appearance
• Packaging final appearance
When Making a Product Consider…..

• Quality Assurance and Control
  – Shelf Life
  – Repeatability
  – Compatibility
    • Raw Ingredients
    • Packaging
When Making a Product Consider.....

• Logistic Management
  – Alternate Supplies
  – Availability of the ingredients/ packaging
  – Production Schedule
  – FIFO (First In First Out) LILO (Last In Last Out)
When Making a Product Consider...Label

• Correct product net weight
• Product information
  – Claims
  – Organic versus
    • Natural,
    • Chemical,
    • Raw, ( Unrefined)
    • Refined
• Universal Product Council (UPC code)
  – Container
  – Shipper
When Making a Product Consider...Label

ORDER OF INGREDIENT DECLARATION

DESCENDING ORDER OF PREDOMINANCE EXCEPTIONS...

ACTIVE DRUG INGREDIENTS
INGREDIENTS WITH LESS THAN 1% CONCENTRATION
COLOR ADDITIVES
"AND OTHER INGREDIENTS"

21 CFR 701.3(a), (d), (f) (2), (f) (3)
INGREDIENTS EVALUATION AND TESTING
Ingredients Evaluation and Testing

• Read the Material Safety Data Sheets (MSDS)
  – Contact with Skin
• Read the Technical Specs and Test methods
  – pH
  – Specific Gravity
  – Viscosity
  – Appearance
  – Active Ingredient (s)
  – Other tests
Ingredients Evaluation and Testing

• Read literature from reliable sources
• Select Test Methods
• Correlate Test Results
• Aging Studies – Shelve and Accelerated
• Perform Compatibility Studies
  – Ingredient
  – Packaging
Mixing and Packaging Fundamentals

• Home-craft

• Small Manufacturing base

– Written procedures
– current Good Manufacturing Practices (cGMP)
  • Lot Tracking
  • Cleanliness
  • Recordkeeping
  • Retainer Samples
  • Adequate storage room and temperature
Mixing Fundamentals to Consider

- **Kettles/Mixers or Tanks**
  - New or Used
  - Electrical requirements
  - Stainless Steel (SS) versus other material
  - Jacket or unjacketed
  - Tank slope

- **Water Type**
  - Reverse Osmosis (R/O)
  - Tap
  - Deionize

- **Personnel**
  - Desire
  - Training
Mixing Fundamentals to Consider

- Production House/Facility
  - Plant/House layout
  - Ease to clean/sanitize
    - Equipment
    - Processing Area

- Pumps or ............

- Type of Mixing /Agitation
  - Whip
  - Homogenizer/ Hand or Stick Blender
  - Paddle
Packaging Fundamentals to Consider

• Packaging Lines
  – New or Used
  – Electrical requirements
  – Containers/minute
  – Ease of operation
  – Ease to clean/ sanitize
  – Safety features
  – Ease of repair

• Repair parts
  – Cost
  – Availability
Mixing and Packaging Fundamentals to Consider:

- Regulatory Affairs
  - OSHA
  - FDA
  - State/Local inspections
Final Product

• **Quality Assurance and Control**
  – Lot tracking
    • Manually
    • Software
  – Retainer Sample
  – Standard Operating Procedures (SOP)

• **Label integrity** [www.fda.gov](http://www.fda.gov)
  – Claims
  – Gram Weight
  – Ingredient list
DEMO - SHOW AND TELL
Tips

• **STORAGE OF SHEA**
  - Prepare a Cool, Dry, Clean area
  - Store in Stainless Steel or Plastic
  - Note date of arrival
  - Physical Quality Inspection

• **HAND- CRAFTING SHEA**
  - Prepare Work area
  - Grease Trap is a good thing
  - Utensils are Plastic, Stainless Steel
  - Pre-weigh raw materials prior blending
  - Recordkeeping
    • Audit Trail
    • Coding
  - Clean up using Dry method then proceed with water
Questions and Answers
Thanks
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