ROUNDTABLE MEETING ON SUSTAINABLE PALM OIL

LEARNING TO LIVE TOGETHER FROM VISION TO TRANSFORMATION

Preparatory cluster: Supply and Demand of Certified Sustainable Palm Kernel Oil

Come lets build a certified sustainable palm kernel supply chain together and explore barriers and solutions with our expert panel
Preparatory cluster: Introduction

1 Start with a quiz
2 Build a certified sustainable palm kernel supply chain for personal care products
3 News update RSPO Credits
4 Insights into the home and personal care industry
5 Sourcing commitments of retailers
6 Presentations by producers
7 Panel debate on solutions and actions

Does this product contain derivatives of palm kernels?

A: Yes  B: No
Do these products contain derivatives of palm kernels?

A: Yes  B: No

Does this product contain derivatives of palm kernels?

A: Yes  B: No
Does this product contain derivatives of palm kernels?

A: Yes
B: No

Does this product contain derivatives of palm kernels?

A: Yes
B: No
Build a palm kernel supply chain for personal care products

1. What do you need?
2. What will you purchase?
3. What will you produce?
4. What do you sell?
5. Who do you sell to?
Certified Palm Kernel Oil Supply Chain

The RSPO is an international non-profit organization formed in 2004 with the objective to promote the growth and use of sustainable oil palm products through credible global standards and engagement of stakeholders.
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## Moisturising Body Lotion

### Product (INCI Name) | Functionality | % w/w
--- | --- | ---
**Phase A**
Mineral Oil 25cS at 25°C (Paraffinum Liquidum) | Occlusive oil | 7.0
Arlacel™ 170 (Glyceryl stearate (and) PEG-100 stearate) | Emulsifying Wax | 5.0
Cithrol™ GMS 40 (Glyceryl stearate) | Co-emulsifier | 2.0
Crodacol™ C90EP (Cetyl alcohol) | Bodying agent | 1.5
Silicone Fluid 200/100 cS (Dimethicone) | Emollient | 1.0

**Phase B**
Water Deionised (Aqua) | - | To 100
Lactic Acid | Skin conditioning agent | 10.0
Propylene glycol | Humectant | 5.0
Kelzan S (Xanthan Gum) | Rheology modifier | 0.3

**Phase C**
Sodium Lactate | pH adjuster | To pH 4.0-4.5
Perfume, Preservative, Colour | qs |
### Kids Cloudberry Jello Shampoo

<table>
<thead>
<tr>
<th>Ingredient/INCI Name</th>
<th>Functionality</th>
<th>% w/w</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Part A</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td></td>
<td>28.10</td>
</tr>
<tr>
<td>FD&amp;C Blue (1% Solution)</td>
<td></td>
<td>0.30</td>
</tr>
<tr>
<td><strong>Part B</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Lauryl Ether Sulfate</td>
<td>Surfactant</td>
<td>53.50</td>
</tr>
<tr>
<td>(Aqua (and) Cocamidopropyl Betaine)¹</td>
<td>Surfactant</td>
<td>10.00</td>
</tr>
<tr>
<td>Cromollient SCE (D-PPG-2 Myreth-10 Adipate)²</td>
<td>Emollient</td>
<td>1.00</td>
</tr>
<tr>
<td>Arlasilk EFA (Linoleamidopropy PG-Dimonium Chloride Phosphate (and) Propylene Glycol (and) Water)³</td>
<td>Surfactant</td>
<td>1.00</td>
</tr>
<tr>
<td>Versathix (PEG-150 Pentaerythrityl Tetaoleate (and) PGU-2 Hydroxyethyl Cocamide (and) Water)⁴</td>
<td>Rheology Modifier</td>
<td>2.50</td>
</tr>
<tr>
<td><strong>Part C</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Citric Acid (10%)</td>
<td>pH Adjuster</td>
<td></td>
</tr>
<tr>
<td><strong>Part D</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fruitliquid Cloudberry Glycerin (and) Water (and) Rubus Chamaemorus Fruit Extract)⁵</td>
<td>Extract</td>
<td>0.50</td>
</tr>
<tr>
<td>Euxyl K100 (Benzy1 Alcohol (and) Methylchloroisothiazoline (and) Methylisothiazolinone)⁶</td>
<td>Preservative</td>
<td>0.10</td>
</tr>
<tr>
<td>Blueberry Fragrance⁷</td>
<td>Fragrance</td>
<td>0.25</td>
</tr>
<tr>
<td>Sodium Chloride</td>
<td>Thickener</td>
<td>2.75</td>
</tr>
</tbody>
</table>

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### Certified Palm Kernel Oil Supply Chain

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1. **Plantation**
2. **Fresh Fruit bunches**
3. **C/N**
4. **Palm Kernel**
5. **Crusher**
6. **Palm Kernel Oil**
7. **Distillation**
8. **Retailer**
9. **Shampoo**
10. **Personal Care Product Manufacturer**
11. **Sodium Lauryl Ether Sulfate (ISEE)**
12. **Olechemical Chemist**
13. **Palm Kernel Fatty Acid Distillates**
News update RSPO Credits

Tomorrow plenary session updates

Insights into the home and personal care industry

• Introduce facilitator Chris Sayner, Croda
PKO: Part of your daily routine

We estimate that you are in contact with PKO at least 10x per day!

Shampoo
Conditioner
Shower gel
Make up
Body lotion

Breakfast:
Cereals
Spreads
Margarine

Toothpaste
Mouth rinse

Wash hands:
Soap

Morning coffee:
Coffee creamer
Chocolates

Lunch:
Spreads
Margarine

Go to beach:
Sun care
products

Afternoon tea:
Biscuits
Cake

Laundry:
Detergent
Fabric conditioner

After dinner:
Chocolates
Ice cream

Evening:
Night cream
Toothpaste
Mouth rinse