OAT OIL

ECOCERT NATURAL REGISTRATION
• Manufacturer: Ceapro Inc, Canada
• Product #: 906-3003
• INCI Name: Avena sativa (Oat) Kernel Extract

PRODUCT COMPOSITION
Ingredient          CAS       EINECS
Avena sativa (Oat)  84012-26-0  281-672-4 (I)
Kernel Extract

Oat oil is extracted from whole oat kernels by a gentle process that retains all of the important biologically active components. It contains a very high level of important natural antioxidants, including several forms of vitamin E. Ceapro was able to develop a product rich in essential fatty acids and natural emollients that provides excellent softening, smoothing and hydrating — for skin, cosmetics, and hair products.

PHYSICAL PROPERTIES
• Fluid oil
• Soluble in oil phases
• Highly stable plant oil
• Pale yellow liquid
• Low odour

ACTIVITY & BENEFITS
• Antioxidant content (oil soluble antioxidants, alkyl pheonolates)
• Soothing anti-irritant
• Biologically active components retained
• Rich in unsaturated fatty acids: moisturising, good for skin health
OAT OIL

PRODUCT SUITABILITY

- Oil based products: cleansing oils, massage oils, facial oils
- Skin care emulsions: moisturisers, cleansers, hand creams
- Anti-ageing & sensitive skin products
- Hair care: hair conditioners, hair oils & serums, scalp treatments
- Baby care: creams, oils, balms, ointments
- Sun care: oils, emulsions, after-sun products
- Decorative cosmetics: emulsion based foundations, lipsticks
- Men’s products: lotions & balms, shaving oils, facial & body care
- Personal care / Hygiene: emulsion based deodorants, antiperspirants
- Therapeutic Products: anti-acne treatments, stretch mark remedies

TECHNICAL SPECIFICATION

- Colour: Clear pale yellow liquid
- Odour: Natural oat
- Peroxide value: Maximum 10mEq/O2/kg
- Iodine value: Approx. 86 to 123g/100g
- Brookfield Viscosity at 25°C: Maximum 100cP
- Density: Approx. 0.85 to 0.95g/cm³
- Refractive Index at 20°C: Approx. 1.396 to 1.545
- Free Fatty Acids: Maximum 5g/100g
- Unsaponifiable Matter: Maximum 3g/100g
- Total Phenolics**: Minimum 100mg/kg
- Total Tocopherols: Minimum 100mg/kg
- Turbidity: Maximum 100 NTU
- Moisture (Karl Fischer): Maximum 0.3% (w/w)

**Includes Tocols, Avenanthamides, Alkyl Phenolates, Esterified Sterols, and Avenacins

KEY PRODUCT APPLICABILITY

- Products for sensitive skin or skin prone to inflammation / redness
- Skin creams, lotions and oils
- Scalp care
**FATTY ACIDS**

<table>
<thead>
<tr>
<th>Fatty Acid</th>
<th>Av. %</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:0 myristic</td>
<td>0.1 to 0.5%</td>
</tr>
<tr>
<td>16:0 palmitic</td>
<td>14 to 16</td>
</tr>
<tr>
<td>16:1 hexadecenoic</td>
<td>0.1 to 0.3%</td>
</tr>
<tr>
<td>18:0 stearic</td>
<td>1 to 2%</td>
</tr>
<tr>
<td>18:1 (n-9) oleic</td>
<td>35 to 43%</td>
</tr>
<tr>
<td>18:1 (n-7) cis-vaccenic</td>
<td>0.2 to 0.6%</td>
</tr>
<tr>
<td>18:2 linoleic</td>
<td>35 to 43%</td>
</tr>
<tr>
<td>18:3 a-linolenic</td>
<td>1 to 1.5%</td>
</tr>
<tr>
<td>20:0 icosanoic</td>
<td>0.05 to 0.15%</td>
</tr>
<tr>
<td>20:1 icosanoic</td>
<td>0.5 to 1%</td>
</tr>
</tbody>
</table>

**MICROBIOLOGICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Yeast / Mould</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Aerobic Microbial Count</td>
</tr>
<tr>
<td>Total combined yeast and mould count</td>
</tr>
</tbody>
</table>

**SOLUBILITY**

Soluble in oil phases

**RECOMMENDED USAGE**

- Recommended usage: as required
- Formulating pH range: 4 to 8
- Formulating temperature range: 20°C to 75°C

**CERTIFICATION STATUS**

- Natural product free from Genetically Modified Organisms
- Allergen free
- Not tested on animals

**SAFETY & TOXICITY**


**PACK SIZES AVAILABLE**

20 kg pails

**HANDLING PROCEDURES**

- Store in a cool and dry place, avoid light and heat.
- Oat Oil is designated as non hazardous material.
- Keep containers closed when not in use.

**SHELF LIFE**

Store in unopened containers for 1 year.

**SUGGESTED FORMULATION**

- Soothing Natural Lip Balm with Oat Oil
SOOTHING NATURAL LIP BALM WITH OAT OIL

SUGGESTED FORMULATION USING OAT OIL

This easy to apply soft lip balm contains 100% natural / naturally derived ingredients. It is designed to rehydrate the lips and add a glossy finish. Ceapro’s oat oil, being rich in unsaturated fatty acids and natural antioxidants, helps to soothe and condition the lips, providing protection against harsh weather conditions.

<table>
<thead>
<tr>
<th>Tradename</th>
<th>INCI Name</th>
<th>% w/w</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oat Oil</td>
<td>Avena sativa (Oat) Kernel Extract</td>
<td>3.00</td>
</tr>
<tr>
<td>Candelilla Wax</td>
<td>Candelilla Cera</td>
<td>1.00</td>
</tr>
<tr>
<td>Beeswax</td>
<td>Cera Alba / Beeswax</td>
<td>12.00</td>
</tr>
<tr>
<td>FloraSun 90</td>
<td>Helianthus Annuus (Sunflower) Seed Oil</td>
<td>to 100.00</td>
</tr>
<tr>
<td>Lipex Shessoft</td>
<td>Butyrospermum Parkii (Shea) Butter</td>
<td>5.00</td>
</tr>
<tr>
<td>Lipacire A</td>
<td>Hydrogenated Palm Kernel Glycerides, Hydrogenated Palm Glycerides</td>
<td>5.00</td>
</tr>
<tr>
<td>Cegesoft PR</td>
<td>Cocos Nucifera (Coconut) Oil</td>
<td>10.00</td>
</tr>
<tr>
<td>Castor Oil</td>
<td>Ricinus Communis (Castor) Seed Oil</td>
<td>10.00</td>
</tr>
<tr>
<td>Zenigloss UPH</td>
<td>Castor Isostearate Succinate, Hydrogenated Castor Oil</td>
<td>1.00</td>
</tr>
<tr>
<td>D-Alpha Tocopherol Acetate (natural)</td>
<td>Tocopheryl Acetate</td>
<td>0.20</td>
</tr>
<tr>
<td>Rosemary Oil</td>
<td>Rosmarinus Officinalis (Rosemary) Leaf Oil</td>
<td>0.50</td>
</tr>
<tr>
<td>Natural Flavour</td>
<td>Parfum / Aroma</td>
<td>qs</td>
</tr>
</tbody>
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METHOD OF MANUFACTURE

1. Gently melt the butters and waxes with the oils.
2. Cool to around 70°C and add the rosemary oil, tocopherol and natural flavour (if using).
3. Pour into suitable containers just above the setting point.

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For more information on a variety of products visit www.ceapro.com