EMULSIFIERS, BUTTERS & THICKENERS provide a formulation with stability and improve the consistency of the product. The remarkable feature of the Plantec® range of natural products is that they are all multi-functional.

EMOLLIENTS are an important inclusion in cosmetics as their key benefit is increased moisturisation. The Plantec® range has an extensive selection of advanced-action natural emollients to choose from. Please see table on page 2.

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Features</th>
<th>Form</th>
<th>Approved for use in organic formulations by:</th>
<th>% of Use</th>
<th>Pack sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLANTEC® LIQUID SHEA LF</td>
<td>100% Natural butter with unique consistency Facilitates emulsions without an adverse crystallisation effect Rich in Omega 6 and 9 fatty acids Moisturising, soothing, improves skin elasticity Semi solid at 20°C, increasingly fluid liquid above 20°C</td>
<td>Semi-solid to fluid liquid ACO COSMOS from 2013</td>
<td>1 – 15 %</td>
<td>1L 5kg 25kg</td>
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<tr>
<td>INCI: Butyrospermum Parkii (Shea) Butter Extract</td>
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<tr>
<td>PLANTEC® NATURAL EMULSIFIER CPS INCI: Glyceryl Oleate (and) Polyglyceryl-3-Polyricinoleate (and) Olea Europaea (Olive) Oil Unsaponifiables</td>
<td>100% Vegetable origin Multi-function emulsifier, water in oil emulsions, cold or warm process No need for co-emulsifier or thickening agent Provides long lasting, intensive moisturising effects, hydrates and softens</td>
<td>Liquid gel ACO Ecocert (COSMOS)</td>
<td>3 – 5%</td>
<td>5kg 25kg</td>
<td></td>
</tr>
<tr>
<td>PLANTEC® NATURAL EMULSIFIER HP10 INCI: Sucrose Polystearate (and) Cetearyl Alcohol (and) Olea Europaea (Olive) Oil Unsaponifiables</td>
<td>100% Vegetable origin Multi-function emulsifier - oil in water emulsions No need for co-emulsifier or thickening agent Moisturising, readily absorbed in the skin Melting range 55°C - 65°C</td>
<td>Flakes ACO Ecocert (COSMOS)</td>
<td>5 % min</td>
<td>1kg 5kg 25kg</td>
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<tr>
<td>PLANTEC® OLIVE BUTTER INCI: Olea Europaea (Olive) Fruit Oil (and) Hydrogenated Vegetable Oil</td>
<td>100% Vegetable butter derived from Olive oil Excellent skin moisturiser with active benefits to skin, hair and nails Penetrates easily into the epidermis Stabilises emulsions and enhances viscosity Melting range 50°C - 60°C</td>
<td>Very soft solid Ecocert (COSMOS)</td>
<td>1 – 30 %</td>
<td>1kg 5kg 25kg</td>
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</tr>
<tr>
<td>PLANTEC® OLIVE EMULSIFIER HE20 INCI: Cetearyl Glucoside (and) Sorbitan Olivate</td>
<td>100% Vegetable origin Multi-function emulsifier - oil in water emulsions Excellent moisturising benefits Produces light touch emulsion, velvety finish on the skin Melting range 50°C - 60°C</td>
<td>Flakes ACO Ecocert (COSMOS)</td>
<td>3 - 6 %</td>
<td>1kg 5kg 25kg</td>
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</tr>
<tr>
<td>PLANTEC® VEGETABLE PETROLATUM VP 170 INCI: Ricinus Communis (Castor) Seed Oil (and) Hydrogenated Castor Oil (and) Copernicia Cerifera (Carnauba) Wax (and) Beeswax</td>
<td>100% Vegetable alternative to petrolatum Intensive moisturiser and conditioning agent - brings shine to formulations Highly compatible with the skin Provides waterproof activity Melting range: 57 – 68°C</td>
<td></td>
<td>Semi solid Ecocert (COSMOS)</td>
<td>5 - 50 %</td>
<td>5kg 25kg</td>
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</table>
| **PLANTEC® ABY SERUM**  | 100% Vegetable origin  
Rich in Omega 3, 6 and 9 fatty acids  
Improves skin hydration and suppleness  
Promotes skin repair and regeneration                          | Liquid gel  | ACO Ecocert (COSMOS)                        | 2 - 10 % | 5kg 25kg   |
| **PLANTEC® AJO**       | 100% Vegetable alternative to jojoba oil  
Economical and readily available  
Similar oxidative stability as jojoba oil  
Easily spreadable with excellent penetration, skin softening   | Fluid liquid | ACO Ecocert (COSMOS)  
No limitation            |          | 1L 5kg 25kg |
| **PLANTEC® AVOSTEROL A25** | 100% Vegetable origin  
Rich in phytoestrols and Omega 9 fatty acids  
Anti-inflammatory, strengthening and repairing  
Provides protection against UV damage                         | Soft solid  | ACO Ecocert (COSMOS)                        | 1 - 6 %  | 5kg 25kg   |
| **PLANTEC® CLEAR GL 15** | 100% Vegetable alternative to petrolatum  
Good skin barrier protector  
Highly compatible with sensitive and reactive skin types  
Revitalises and restores suppleness                           | Thick gel   | ACO Ecocert (COSMOS)                        | Up to 20 % | 5kg 25kg   |
| **PLANTEC® CRAMBIOSOL** | 100% Vegetable origin  
Innovative active, multiple skin and hair benefits  
Exceptional functional and sensorial properties  
Repairing and nourishing, produces velvet finish              | Fluid liquid | ACO Ecocert (COSMOS)  
2 – 10 %            |          | 1L 5kg 25kg |
| **PLANTEC® CRYSTOLIVE® S** | 100% Olive origin  
Excellent feel, absorption and spreading characteristics  
Restores suppleness and skin flexibility  
Assists in stabilising emulsions                               | Hard solid  | ACO Ecocert (COSMOS)                        | 2 – 10 % | 5kg 25kg   |
| **PLANTEC® OLIVE SQUALANE** | 100% Olive origin. Exceptional moisturising properties  
Stable over wide range of temperatures  
Minimises appearance of wrinkles, promotes skin health         | Fluid liquid | ACO Ecocert (COSMOS)  
No limitation            |          | 1L 5kg 25kg |
| **PLANTEC® OLIVE SQUALENE** | 100% Olive origin. Exceptional moisturising properties  
Active defence against ageing and damaged skin, anti-inflammatory. Enhances effectiveness of SPF | Fluid liquid | Ecocert (COSMOS)  
1 – 10 %            |          | 5kg 25kg   |
| **PLANTEC® SENSOLIVE LD** | Alternative to silicone  
Highly stable oil from olive origin  
Exceptional smooth, silky feel, powdery finish                 | Fluid liquid | ACO Ecocert (COSMOS)  
0.5 – 15 %            |          | 1L 5kg 25kg |
| **PLANTEC® VEGETABLE MINK OIL** | 100% Vegetable alternative to mink oil  
Excellent absorption, luxurious skin feel and slip  
Outstanding soothing, nourishing and skin softening  
Rapid absorption, non-greasy                                    | Fluid liquid | ACO Ecocert (COSMOS)  
Up to 20 %            |          | 1L 5kg 25kg |
| **PLANTEC® VL**        | 100% Vegetable alternative to lanolin  
Excellent moisturising agent, cutaneous barrier protector  
Provides waterproof activity  
Assists in stabilising emulsions                                | Semi solid  | ACO Ecocert (COSMOS)  
1 - 10 % in emulsions. No limit in anhydrous products.        |          | 5kg 25kg   |