

Trade Name	Description	
<p><b>EcoCeramide™ Technology</b></p>	<p>Proprietary mixtures of Ceramide NP made from diverse fatty acids. Designed to mimic the composition of ceramides in the skin, and stereochemically identical to human Ceramide NP. Contains free phyto-sphingosine to provide dual activity. Made using an eco-friendly, COSMOS-compliant process.</p> <p>Imparts an immediate effect on the surface of the skin</p> <ul style="list-style-type: none"> <li>• Replenishes skin's physiological lipids</li> <li>• Helps repair damaged skin barrier</li> </ul> <p>Provides a sustained effect within the stratum corneum</p> <ul style="list-style-type: none"> <li>• Enhances corneocyte maturation and improves NMF production</li> <li>• Stimulates <i>de novo</i> synthesis of long-chain ceramides</li> </ul>	<p><u>Applications</u></p> <ul style="list-style-type: none"> <li>• Moisturization products</li> <li>• Skin protection</li> <li>• Barrier repair</li> <li>• Healthy skin</li> </ul> <p><u>Available as</u></p> <ul style="list-style-type: none"> <li>• Viscous cream containing 5% Ceramide NP</li> <li>• Paste containing 20% Ceramide NP</li> <li>• Concentrated powder containing 85% Ceramide NP</li> </ul>
<p>EcoCeramide™ LCS <i>Recommended use level: 1 – 10%</i></p>	<p>Blend of natural plant oils used to produce EcoCeramides LCS, LCS 20, and HP LCS:</p>	<p>5% Ceramide NP Also contains Phytosphingosine, Glycerin, Hydrogenated Lecithin</p>
<p>EcoCeramide™ LCS 20 <i>Recommended use level: 0.25 – 2.5%</i></p>	<ul style="list-style-type: none"> <li>• <i>Butyrospermum Parkii</i> (Shea) Butter</li> <li>• <i>Moringa Oleifera</i> Seed Oil</li> </ul>	<p>20% Ceramide NP Also contains Phytosphingosine and Glycerin</p>
<p>HP EcoCeramide™ LCS <i>Recommended use level: 0.05 – 0.5%</i></p>	<ul style="list-style-type: none"> <li>• <i>Limnanthes Alba</i> (Meadowfoam) Seed Oil</li> <li>• <i>Macadamia Integrifolia</i> Seed Oil</li> </ul>	<p>85% Ceramide NP Also contains Phytosphingosine</p>
	<p>Virtually any plant triglyceride (oil) can be used to prepare EcoCeramides. EcoCeramide Shea Butter and EcoCeramide Argan Oil are available.</p>	
<p>EcoCeramide™ ENP <i>Recommended use level: 10-25% of the level of traditional ceramides in the formula</i></p>	<p>Novel ceramide with a boosting effect on the skin barrier activity of traditional ceramides, via a novel bidirectional anchoring mode of action. Stabilizing effect on the multilamellar lipid structure in the stratum corneum.</p>	<p><u>Applications</u></p> <ul style="list-style-type: none"> <li>• Long-term moisturization</li> <li>• Barrier repair</li> <li>• Healthy skin</li> </ul> <p><i>INCI: Ceramide NP Stearate</i></p>
<p>EcoCera Plus</p>	<p>Blend of Ceramide NP (HP EcoCeramide LCS) and EcoCeramide ENP in an optimized ratio for easy formulation of skin barrier protection and repair products. Delivers significantly better hydration and reduced TEWL than Ceramide NP alone.</p>	<p><u>Applications</u></p> <ul style="list-style-type: none"> <li>• Long-term moisturization</li> <li>• Barrier repair</li> <li>• Healthy skin</li> </ul> <p><i>INCI: Ceramide NP, Ceramide NP Stearate</i></p>

**ProCeramide™**

*Recommended use level: 5%*

Fermentation-derived phytosphingosine in a liposomal vehicle.

Phytosphingosine has been shown to have multiple roles as an essential modulator of skin barrier homeostasis.

- Enhances corneocyte maturation, leading to improved production of Natural Moisturizing Factor
- Upregulates expression of proteins involved in *de novo* synthesis of new ceramides, including critical C<sub>24</sub> long-chain ceramides

Applications

- Long-term moisturization
- Skin protection
- Barrier repair
- Healthy skin

*2% phytosphingosine  
Also contains Water, Lecithin,  
Butylene Glycol, Lactic Acid,  
1,2-Hexanediol*