The Powerful O/W Emulsifier with thickening & sensory enhancing capacities

**Origin:**
- INCI: Hydroxypropyl starch phosphate & Sodium starch octenylsuccinate
- Optimized & patented complex of the hydrophilic starch, hydroxypropyl starch phosphate, (HP) that thickens the water phase & the lipophilic starch, sodium octenyl succinate starch (n-OSA), which stabilizes the emulsion at the oil-water interphase

**Traceability & sustainability:**
- Based on waxy corn 100% from Europe
- Sourced through the Waxy Corn Promise™: a sustainability farming program launched in 2018, verified externally and benchmarked Silver against the Sustainable Agriculture Initiative (SAI) Platform

**Uniqueness:**
- Triple function: emulsion stabilizer at the oil-water interface, thickener of the water phase & sensory enhancer
- Primary emulsifier or co-emulsifier for low or high 5-60% of oil content of all polarities
- Richness during application
- Smooth & cocooning after feel
- No soaping effect
- Competitive cost-in-use

**Technical data:**
- Dose of use 1-6%
- White powder form
- Non-ionic
- Cold/Hot processable
- Dispersible in water
- pH range: 4-7

**Compatibility:**

<table>
<thead>
<tr>
<th>Preservative</th>
<th>EUXYL® K903 1%</th>
<th>EUXYL® K712 1,2%</th>
<th>EUXYL® PE901 1%</th>
<th>NATSOFT® SCB 1,3%</th>
<th>SPECTRASTAT™ 1%</th>
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<tbody>
<tr>
<td>INCI</td>
<td>Benzyl Alcohol, Benzoic Acid, Dihydroxyacetone, Tocopherol</td>
<td>Sodium Benzoate, Potassium Sorbate, Aqua</td>
<td>Phenoxethanol, Ethylhexylglycerin</td>
<td>Sorbitan Caprylate, Propanediol, Benzoic Acid</td>
<td>Ccaprylyl Glycol, Caprylylhydroxyisocyanic Acid, Glycerin</td>
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<th>NaCl %</th>
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<tr>
<th>pH</th>
<th>4</th>
<th>7</th>
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Applications

When to use StarDesign™ Power?

- To emulsify up to 60% of oil content and texturize the water phase with the same ingredient
- To emulsify whatever the formulation conditions: oil polarity, pH, electrolytes
- To uncover a full texture range with smooth sensory profile: no soaping effect and non-sticky
- To have a competitive cost in use emulsifier

Formulation tips

As a primary emulsifier (oil content >30%)

- StarDesign™ Power + Texturizer
- Slow addition of the oil (mediatory)
- Water +/- Glycerin
- Homogenization 4 min at 4000 rpm Rotor stator

As a primary emulsifier (oil content <30%): concentrated & cold process

- StarDesign™ Power +/- Texturizer
- Slow addition of the oil
- Add the remaining water phase
- Only 40% of the Water
- Homogenization 4 min at 4000 rpm Rotor Stator
- Concentrated Emulsion

Cold process in combination with lecithin (or other co-emulsifier)

- StarDesign™ Power + Texturizer
- Oil + Co-Emulsifier
- Homogenization at 4000 rpm Rotor stator

Textures:
- Lotion
- Cream
- Butter
- Mask
- Sensory fingerprint: soft, cocooning, fast absorbing

Product details

- CAS N° Sodium Starch Octenylsuccinate 66829-29-6
- Hydroxypropyl Starch Phosphate 53124-00-8
- Packaging: 20 kg (net) paper bags hermetically sealed
- Shelf life after production date (months): 24
- IECIC listed

Contact us at: beauty@cargill.com

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