A Versatile Organic Zinc Salt

EcoCare™ Zinclean
(INCI: Zinc PCA)

- Suppress sebum secretion by inhibiting 5-α reductase in hyperseborrhea
- Suppress body odor by forming zinc salts with short-chain fatty acids
- Suppress wrinkles by inhibiting AP-1
- Inhibit bacterial growth including Propionibacterium acnes
- Keep skin moist & pliable as an NMF

Skin Care  Hair Care

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**A VERSATILE ORGANIC ZINC SALT**

<table>
<thead>
<tr>
<th><strong>Trade Name</strong></th>
<th>EcoCare™ Zinclean</th>
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<tbody>
<tr>
<td><strong>Common Name</strong></td>
<td>Zinc PCA (INCI)</td>
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<tr>
<td><strong>Chemical Name</strong></td>
<td>L-Pyrrolidone-5-carboxylic acid zinc salt, Zinc L-pyroglutamate</td>
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<td><strong>Synonyms</strong></td>
<td>PIDO-ZINC® (Solabia), AJIDEW® ZN-100 (Ajinomoto)</td>
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<td><strong>CAS No.</strong></td>
<td>15454-75-8</td>
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<td><strong>EINECS No.</strong></td>
<td>239-473-5</td>
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<tr>
<td><strong>Empirical Formula</strong></td>
<td>C₅H₇NO₃ • 1/2Zn</td>
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![Molecular Structure](image)

**Characteristics**
- White to pale yellow crystalline powder

**Solubility**
- Easily soluble in water

**Specification**
- Cosmetic Grade

**Category**
- Skin Care, Hair Care

**Functions**
- Antiseborrhoeic agent, Antimicrobial agent, anti-acne agent

**Features**
- EcoCare™ Zinclean is the zinc salt of L-Pyrrolidone 5-Carboxylic Acid (PCA) which is a natural moisturizing factor (NMF) of amino acid type. EcoCare™ Zinclean is able to suppress sebum secretion by inhibiting 5-α reductase in hyperseborrhea, suppress body odor by forming zinc salts with short-chain fatty acids, suppress wrinkles by inhibiting AP-1 and inhibit bacterial growth including acne related Propionibacterium acnes. EcoCare™ Zinclean has synergistic effect with EcoGard™ PO (Piroctone Olamine) in treating seborrheic dermatitis.

**Applications**
- Antidandruff shampoo, oil control cosmetics, anti-acne cosmetics

**Typical Dosage**
- 0.1-1.0% (depending on formulation)

**Packing**
- 1kg aluminum foil bag, 10kg cardboard carton, 25kg paper drum

**Transport**
- Non-hazardous cargo (IMO/IATA)

**Remarks**
- Safety and efficacy report available upon request.

**Supplier**
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