

# Technical Data Sheet

## Product identification

Activoil™ Echnidium ZRO

---

INCI Name	<i>Echium Plantagineum Seed Oil (and) Octyldodecanol (and) Octyldodecyl Oleate (and) Octyldodecyl Stearoyl Stearate (and) Cnidium Monnieri Fruit Extract (and) Rosmarinus Officinalis (Rosemary) Leaf Extract</i>
CAS	[90028-22-1], [5333-42-6], [22801-45-2], [90052-75-8], [484-12-8], [84604-14-8]
EINECS	289-811-0, 226-242-9, 245-228-3, 289-991-0, 283-291-9

## Product Properties

Description	Lipophilic plant extract and vegetable oil combination stabilized against oxidation
Key Features	Cosmetic active ingredient that synergizes the action of Echium seed oil, enriched of Stearidonic acid (C18:4n-3) fatty acid with that of Cnidium Monnieri Fruit Extract, to prevent and repair the skin from <PM 2.5-induced damage
Recommended use level	0.5 – 3.0 %
Solubility	Soluble in oils and cosmetic alcohols
Formulation procedures	The ingredient should not be heated prior to its incorporation in a formulation. In emulsions, it must be added during the emulsifying step, when the formulation temperature is at a maximum of 50-60°C. The recommended pH range is 5.0 to 7.0.
Applications	Skin care (anti-aging, sensitive skin formulations, dermatological products), Toiletries, Green formulations
In vitro and clinical actions	<ul style="list-style-type: none"><li>• Prevention of skin barrier functions (TEWL)</li><li>• Acceleration of skin barrier repair (TEWL)</li><li>• Reduction of skin erythema (Mexameter)</li><li>• Soothing action against chemical stress (Mexameter)</li></ul>

---

## Storage

In original sealed containers, in a cool and dry place, protected from light. Cloudiness or sedimentation is normal and may be resolved by rotating the unopened drum.

## Shelf Life

3 years, stored unopened in original drums. Once opened the shelf life is limited by temperature, light and exposure to air. Any remaining oil should be stored under nitrogen and used as soon as possible.

---