



BIOGRÜNDL, S.L.  
POLÍGONO LES FALLULLES, NAVE 34 -SECTOR 2-  
08620 SANT VICENÇ DELS HORTS, BARCELONA (SPAIN)  
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## TECHNICAL DATA SHEET

### TEA TREE WATER / A / HP / CA11 /



**Trade Name:** TEA TREE WATER / A / HP / CA11 /

**Product Code:** AARTEAHPC11.

**INCI Name:** AQUA, MELALEUCA ALTERNIFOLIA LEAF OIL, POLYGLYCERYL-6 CAPRYLATE, POLYGLYCERYL-4 CAPRATE, POTASSIUM SORBATE.

**INCI Status:** Conforms.

**REACH Status:** Low Volume Exemption.

**CAS Number:** 7732-18-5; 85085-48-9 / 8022-72-8 / 68647-73-4; 108777-93-1; 74504-65-7; 24634-61-5 / 590-00-1.

**EC Number:** 231-791-2; 285-377-1; Not available; Not available; 246-376-1.

**Origin:** MELALEUCA ALTERNIFOLIA LEAF OIL, POLYGLYCERYL- 6 CAPRYLATE,

**POLYGLYCERYL-4 CAPRATE:** Vegetable origin.

**POTASSIUM SORBATE:** Synthetic origin.

**Processing:** GMO Free. / No Ethoxylation. / No Irradiation. / No Sulphonation. / No BSE/TSE. / No CMR. / No SVHC. / No Nanomaterial. / No DEG. / No DEHP. / No Formaldehyde. / No Phthalates. /

**Additives:** Preservatives: Potassium sorbate. Paraben Free. / Antioxidants: None. / Other additives: None.

**Solvents Used:** Water, polyglyceryl – 6 caprylate and polyglyceryl – 4 caprate.

**Appearance:** Clear liquid.

**Colour:** Characteristic (colourless to yellowish).

**Odour:** Characteristic.

**Specific gravity:** 0,990 – 1,010 g/cm<sup>3</sup> (20°C approx.).

**Direct pH value:** 4,5 - 6,5 (20°C approx.).

**Soluble/ Miscible:** Water. Surfactants. Hydroalcoholic, hydroglyceric and hydroglycolic mixtures.

**Ecological Information:** Sustainable.

**Microbial Count:** **Total aerobics:** Max. 300 microorganisms / gram.

**Fungi and yeasts:** Max. 200 microorganisms / gram.

**Pathogens:** Total absence in 1 gram.

**Suggested Use Levels:** 5,0 – 100,0%.

**Suggested Applications:** Stimulating, toning and disinfectant preparations. Functional massage creams. Anti-acne and anti-psoriasis products. Atonic or old skin treatment.

**Properties:** Flavouring, antiseptic, vulnerary, analgesic, purifying, healing and insect repellent.

**Industrial packing:** 1Kg., 5Kg., 25Kg., 200Kg.

**Storage conditions:** It is very important to keep the product in well closed containers, away from direct sunlight at temperatures not over 15°C. In case of not having refrigerators, store the product in the coolest and free from artificial light area.

**Bibliography:** - Atlas Ilustrado de Plantas Medicinales y Curativas, Ed. Susaeta.

- Dumont's grosse Kräuter Enzyklopädie.

- Fitocosméticos ALVAREZ CRUZ i BAGUE SERRANO.

- Gran enciclopedia de las plantas medicinales, BERDONCES i SERRA.

- Plantas medicinales, FONT i QUER.

- Proserpio G., Martelli A., Patri GF., Elementi di Fitocosmeci; Ed. Sepem / Milano 1983.

- Websites.



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### **OVERVIEW**

Tea tree (*Melaleuca alternifolia*) is a shrub belonging to the Myrtaceae family, native to Australia. Its use in medicine and in cosmetics is very recent in Europe; instead in its origin country, it was employed by the natives because of its disinfectant and aromatic properties.

TEA TREE WATER by BIOGRÜNDL, S.L. is obtained from leaves by steam distillation which drags an essential oil, whose main constituents are:

- Eucalyptol or cineole, up to 65 %
- Terpeneol and derivatives, up to 10 %
- Others (pinene, limonene, linalol, nerolidol and sesquiterpenic hydrocarbons)

### **USE AND DOSAGE**

The incorporation of tea tree water in cosmetics is justified by its flavoring, antiseptic, vulnerary, analgesic, purifying, healing and insect repellent properties.

It is properly to include in stimulating, toning and disinfectant preparations, as well as, in functional massage creams. It is advisable, in addition, its use in anti-acne and anti-psoriasis products. Also, in atonic or aged skin treatment.

If turbidity is observed, it is advisable to previously dissolve the product in a portion of the water provided to manufacture the final product and filter after 12-24 hours.

The recommended concentrations of use are between 5% and 100%.



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### PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Clear liquid.

**Colour:** Characteristic (colourless to yellowish).

**Odour:** Characteristic.

**Direct pH value:** 4,5 - 6,5 (20°C approx.).

**Specific gravity:** 0,990 - 1,010 g/cm<sup>3</sup> (20°C approx.).

**Solubility in water:** Fully soluble (20°C approx.).

**Solubility in other solvents:** Insoluble in organic solvents and lipids. Soluble in surfactants, hydroalcoholic, hydroglyceric and hydroglycolic mixtures.

**Heavy metals:** No more than 5 mg/Kg.

**Sulfated ash:** No more than 0,01%.

**Chlorides:** No more than 0,007%.

**Sulfates:** No more than 0,002%.

**Other information:** None.

**Total aerobics:** Max. 300 microorganisms / gram.

**Fungi and yeasts:** Max. 200 microorganisms / gram.

**Pathogens:** Total absence in 1 gram.

### DERMATOLOGY INNOCUOUSNESS

It was performed by the patch test (Patch test) on 10 volunteers. 0,5 g. of TEA TREE WATER by BIOGRÜNDL, S.L. is poured over the patch and attached on the forearm. It is thus maintained for 24, 48 and 72 hours, after which, evaluates the given reaction, according to the following table of values:

1. No erythema.
2. Slight erythema.
3. Well defined erythema.
4. Severe erythema.

The result was absence of erythema on the 10 volunteers.

On the recommended concentrations, the product is skin innocuous.



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### **STORAGE CONDITIONS**

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### **INCI DENOMINATION**

AQUA, MELALEUCA ALTERNIFOLIA LEAF OIL, POLYGLYCERYL-6 CAPRYLATE,  
POLYGLYCERYL-4 CAPRATE, POTASSIUM SORBATE.