

### **TECHNICAL DATA SHEET (TDS)**

<b>Product Name</b>	<b>BETEL LEAF ESSENTIAL OIL</b>
<b>Botanical Name</b>	Piper betle
<b>CAS #</b>	84775-81-5
<b>EINECS #</b>	283-910-2
<b>INCI Name</b>	Piper Betle Leaf Oil

<b>Part Used</b>	Leaves
<b>Extraction Method</b>	Steam Distilled Essential Oil
<b>Quality</b>	100% Pure and Natural
<b>Note Classification</b>	Top to Middle Note

<b><u>PROPERTIES</u></b>	<b><u>SPECIFICATIONS</u></b>
<b>Appearance</b>	Pale yellow to brownish colored liquid
<b>Odour</b>	Phenolic, smoky-spicy odour
<b>Refractive Index</b>	1.502 - 1.522 @ 20°C
<b>Specific Gravity (g/mL)</b>	0.967 - 0.978 @ 20°C
<b>Optical Rotation (°)</b>	-1.5° to -4°
<b>Solubility</b>	Soluble in alcohols and fixed oils; Insoluble

<b><u>MICROBIAL ANALYSIS</u></b>	<b><u>SPECIFICATIONS</u></b>	<b><u>STANDARDS</u></b>
<b>Aerobic Mesophilic Bacterial Count</b>	< 100 CFU/g	ISO 21149
<b>Yeast and Mould</b>	< 10 CFU/g	ISO 16212
<b>Candida albicans</b>	ABSENT / 1g	ISO 18416
<b>Escherichia coli</b>	ABSENT / 1g	ISO 21150
<b>Pseudomonas aeruginosa</b>	ABSENT / 1g	ISO 22717
<b>Staphylococcus aureus</b>	ABSENT / 1g	ISO 22718

<b><u>HEAVY METAL TESTS</u></b>	<b><u>SPECIFICATIONS</u></b>	<b><u>STANDARDS</u></b>
<b>Lead: Pb (mg/kg or ppm)</b>	< 10 ppm	na
<b>Arsenic: As (mg/kg or ppm)</b>	< 2 ppm	na
<b>Mercury: Hg (mg/kg or ppm)</b>	< 1 ppm	na

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