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TECHNICAL DATA SHEET (TDS)

Product Name	CALENDULA (MARIGOLD) OIL
Botanical Name	Calendula officinalis
Product Code	PIO5003
INCI Name	Calendula Officinalis Flower Extract and Helianthus Annus (Sunflower) Seed Oil
CAS#	84776-23-8, 70892-20-5 and 8001-21-6
EINECS#	283-949-5 and 232-273-9

Extraction Method	Infusion of Calendula (Marigold) flowers in Helianthus annuus (Sunflower) Seed Oil
Standardization	33.3% dry herb/L of oil (i.e., 333 g herb per 1000 ml of oil)
Quality	100% Pure and Natural

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>
Appearance	Yellow to deep orange colored liquid
Odour	Characteristic herbaceous-green, floral aroma
Refractive Index	1.460 - 1.480 @ 20°C
Specific Gravity (g/mL)	0.900 - 0.930 @ 20°C
Saponification Value (mgKOH/g)	180 - 200
Solubility	Soluble in cosmetic esters and fixed oils; Insoluble in water

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

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

STABILITY AND STORAGE:

Keep in tightly closed container in a cool and dry place, protected from sunlight. When stored for more than 24 months, quality should be checked before use.

As it is electronically generated document, hence no signature required.

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