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TECHNICAL DATA SHEET (TDS)

Product Name	SEA BUCKTHORN OIL
Botanical Name	Hippophae rhamnoides
Product Code	PCO4045
CAS #	90106-68-6 ; 225234-03-7
EINECS #	290-292-8
INCI Name	Hippophae Rhamnoides (Sea Buckthorn) Fruit Oil

Part Used	Fruit pulp
Extraction Method	Cold Pressed
Quality	100% Pure and Natural

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>
Appearance	Deep reddish orange to dark orange colored thick liquid
Odour	Characteristic mildly sweet, musky, earthy odour
Refractive Index	1.450 - 1.480 @ 20°C
Specific Gravity (g/mL)	0.900 - 0.930 @ 20°C
Saponification Value (mgKOH/g)	170 - 200
Peroxide Value (meq O₂/kg)	Less than 5.0
Iodine Value (g I₂/100g)	30 - 100
Acid Value (mgKOH/g)	Less than 10.0
Cartenoids (mg/100g)	Minimum 300
Solubility	Soluble in cosmetic esters and fixed oils; Insoluble in water

FATTY ACID COMPOSITION:

<u>FATTY ACID</u>	<u>C-CHAIN</u>	<u>SPECIFICATIONS (%)</u>
Palmitic Acid	C16:0	28.00 – 40.00
Palmitoleic Acid	C16:1 (n-7)	32.00 – 42.00
Stearic Acid	C18:0	Maximum 2.00
Oleic Acid (including Vaccenic Acid)	C18:1	6.00 – 15.00
Linoleic Acid	C18:2 (n-6)	4.00 – 16.00
Alpha-Linolenic Acid	C18:3 (n-3)	0.50 - 2.50
Nervonic Acid	C24:1 (n-9)	Maximum 1.50

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<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

<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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