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TECHNICAL DATA SHEET (TDS)

| Product Name | RASPBERRY SEED OIL | |
|----------------|-----------------------------------|--|
| Botanical Name | Rubus idaeus | |
| Product Code | PCO4056 | |
| CAS # | 84929-76-0; 381718-28-1 | |
| EINECS # | 284-554-0 | |
| INCI Name | Rubus Idaeus (Raspberry) Seed Oil | |

| Part Used | Seeds |
|-------------------|-----------------------|
| Extraction Method | Cold Pressed |
| Quality | 100% Pure and Natural |

| PROPERTIES | SPECIFICATIONS | |
|---|--|--|
| Appearance | Dark yellow colored liquid with a little green hue | |
| Odour | Characteristic mild fruity odour | |
| Refractive Index | 1.470 - 1.482 @ 20°C | |
| Specific Gravity (g/mL) | 0.910 - 0.950 @ 20°C | |
| Saponification Value (mgKOH/g) | 170 - 210 | |
| Peroxide Value (meq O ₂ /kg) | Less than 10.0 | |
| Iodine Value (g I ₂ /100g) | 165 - 195 | |
| Free Fatty Acids (% oleic) | Less than 1.0 | |
| Acid Value (mgKOH/g) | Less than 2.0 | |
| Solubility | Soluble in cosmetic esters and fixed oils; Insoluble | |
| | in water | |

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FATTY ACID COMPOSITION:

| FATTY ACID | <u>C-CHAIN</u> | SPECIFICATIONS |
|----------------------|----------------|----------------|
| Palmitic Acid | C16:0 | 2.00 - 5.00 |
| Stearic Acid | C18:0 | 0.50 - 3.00 |
| Oleic Acid | C18:1 (n-9) | 7.00 – 15.00 |
| Linoleic Acid | C18:2 (n-6) | 48.00 - 62.00 |
| Alpha-Linolenic Acid | C18:3 (n-3) | 28.00 - 36.00 |

| MICROBIAL ANALYSIS | SPECIFICATIONS | STANDARDS |
|------------------------------------|-----------------------|-----------|
| 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 |

| HEAVY METAL TESTS | SPECIFICATIONS | STANDARDS |
|----------------------------|----------------|-----------|
| 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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