



## CERTIFICADO DE ANALISIS

| PRODUCT DETAILS                      |                                                                                         |                         |         |                   |        |
|--------------------------------------|-----------------------------------------------------------------------------------------|-------------------------|---------|-------------------|--------|
| Product Name                         | PALMAROSA OIL                                                                           |                         |         |                   |        |
| Product Code                         | OEPALM                                                                                  |                         |         |                   |        |
| INCI Name                            | Cymbopogan martinii stapf var. motia                                                    |                         |         |                   |        |
|                                      |                                                                                         |                         |         |                   |        |
| Batch Number                         | 4375515                                                                                 |                         |         |                   |        |
| Best Before End                      | 10/2022                                                                                 |                         |         |                   |        |
|                                      |                                                                                         |                         |         |                   |        |
| Manufacturing Process                | Steam distillation from leaves, stems and flowers of cymbopogan martini.                |                         |         |                   |        |
| Identification                       | CAS No: 84649-81-0                                                                      | EINECS No: 283-461-2    |         |                   |        |
|                                      | Alternative Cas: 8014-19-5                                                              | FEMA: 2831              |         |                   |        |
|                                      | CoE No: 40                                                                              | FLAVIS No: 06.006       |         |                   |        |
|                                      | FDA No: 182.20                                                                          |                         |         |                   |        |
| PHYSICAL AND CHEMICAL CHARACTERISTIC |                                                                                         |                         |         |                   |        |
|                                      | SPECIFICATION RANGE                                                                     | RESULTS                 |         |                   |        |
| Appearance                           | Liquid                                                                                  | Conforms                |         |                   |        |
| Colour                               | Pale Yellow                                                                             | Conforms                |         |                   |        |
| Odour                                | Sweet rose like                                                                         | Conforms                |         |                   |        |
| Relative Density @ 25°C              | 0.878 - 0.892                                                                           | 0.8859                  |         |                   |        |
| Refractive Index @ 25°C              | 1.465 - 1.485                                                                           | 1.4746                  |         |                   |        |
| Optical Rotation                     | -2 to +3°C                                                                              | -0.52                   |         |                   |        |
| MAIN CONSTITUENTS                    |                                                                                         |                         |         |                   |        |
| CONSTITUENTS RANGE                   | RESULT                                                                                  | CONSTITUENTS RANGE      | RESULTS | CONSTITUENT RANGE | RESULT |
| Geraniol >70 < 90%                   | 83.50%                                                                                  | Geranyl Acetate >5 <15% | 9.80%   | Linalool 1-5%     | 2.10%  |
| Beta Caryophellene 1-5%              | 1.80%                                                                                   |                         |         |                   |        |
| STORAGE AND SHELF LIFE               |                                                                                         |                         |         |                   |        |
| Storage                              | Store in tightly closed container with minimum headspace in a cool, dark and dry place. |                         |         |                   |        |



## ALLERGEN STATEMENT / CERTIFICADO DE ALERGENOS

| Compounds                                        | C.A.S      | % Natural | % Synthetic | % Total |
|--------------------------------------------------|------------|-----------|-------------|---------|
| Alpha-Hexyl cinnamic aldehyde (HCA)              | 101-86-0   | -         | -           | -       |
| Amyl cinnamic alcohol                            | 101-85-9   | -         | -           | -       |
| Amyl cinnamic aldehyde (ACA)                     | 122-40-7   | -         | -           | -       |
| Anisyl alcohol                                   | 105-13-5   | -         | -           | -       |
| Benzyl salicylate                                | 118-58-1   | -         | -           | -       |
| Benzyl benzoate                                  | 120-51-4   | -         | -           | -       |
| Benzyl cinnamate                                 | 103-41-3   | -         | -           | -       |
| Benzyl alcohol                                   | 100-51-6   | -         | -           | -       |
| Cinnamic alcohol                                 | 104-54-1   | -         | -           | -       |
| Cinnamic aldehyde                                | 104-55-2   | -         | -           | -       |
| Citral                                           | 5392-40-5  | 1-5       | -           | -       |
| Citronellol                                      | 106-22-9   | -         | -           | -       |
| Coumarin (2p-1-benzopyran-2-one                  | 91-64-5    | -         | -           | -       |
| D'limonene                                       | 5989-27-5  | 1-5       | -           | -       |
| Eugenol                                          | 97-53-0    | -         | -           | -       |
| Farnesol                                         | 4602-84-0  | ca 1%     | -           | -       |
| Geraniol                                         | 106-24-1   | ca 85%    | -           | -       |
| Lylal (Hydroxymethylpentyl cyclohexene carbalde) | 31906-04-4 | -         | -           | -       |
| Hydroxycitronellal                               | 107-75-5   | -         | -           | -       |
| Isoeugenol                                       | 97-54-1    | -         | -           | -       |
| Alpha-Iso-methyl Ionone                          | 127-51-5   | -         | -           | -       |
| Linalool                                         | 78-70-6    | 1-5       | -           | -       |
| Methyl heptine carbonate                         | 111-12-6   | -         | -           | -       |
| Oakmoss absolute                                 | 9000-50-4  | -         | -           | -       |
| p-tert-Butyl-alpha-methylhydrocinnamic a         | 80-54-6    | -         | -           | -       |
| Tree moss                                        | 68648-41-9 | -         | -           | -       |

**PRODUCT NAME: PALMAROSA OIL**



# PALMAROSA OIL

IFRA QRA Restricted Standards - 47th Amendment to the Code of Practice

| Material                                                     | CAS Number  | Typical Value | Amendment | Limits in the finished product (%) |            |            |            |            |            |            |            |            |             |                |
|--------------------------------------------------------------|-------------|---------------|-----------|------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|----------------|
|                                                              |             |               |           | Category 1                         | Category 2 | Category 3 | Category 4 | Category 5 | Category 6 | Category 7 | Category 8 | Category 9 | Category 10 | Category 11    |
| Allyl phenoxycetate                                          | 7493-74-5   |               | 44        | 0.02                               | 0.03       | 0.11       | 0.32       | 0.17       | 0.51       | 0.05       | 0.70       | 3.50       | 2.50        | Not Restricted |
| $\alpha$ -Amyl cinnamic alcohol                              | 101-85-9    |               | 42        | 0.1                                | 0.1        | 0.5        | 1.6        | 0.8        | 2.5        | 0.3        | 2.0        | 5.0        | 2.5         | Not Restricted |
| $\alpha$ -Amyl cinnamic aldehyde                             | 122-40-7    |               | 47        | 0.7                                | 0.9        | 3.6        | 10.7       | 5.6        | 17.1       | 1.8        | 2.0        | 5.0        | 2.5         | Not Restricted |
| Anisyl alcohol                                               | 105-13-5    |               | 42        | 0.04                               | 0.1        | 0.2        | 0.7        | 0.4        | 1.1        | 0.1        | 1.5        | 5.0        | 2.5         | Not Restricted |
| Benzaldehyde                                                 | 100-52-7    |               | 47        | 0.02                               | 0.02       | 0.09       | 0.27       | 0.14       | 0.43       | 0.05       | 0.60       | 3.00       | 2.5         | Not Restricted |
| Benzyl alcohol                                               | 100-51-6    |               | 42        | 0.2                                | 0.2        | 0.9        | 2.7        | 1.4        | 4.3        | 0.4        | 2.0        | 5.0        | 2.5         | Not Restricted |
| Benzyl benzoate                                              | 120-51-4    |               | 42        | 1.7                                | 2.2        | 8.9        | 26.7       | 14.0       | 42.8       | 4.5        | 2.0        | 5.0        | 2.5         | Not Restricted |
| Benzyl cinnamate                                             | 103-41-3    |               | 42        | 0.1                                | 0.2        | 0.7        | 2.1        | 1.1        | 3.4        | 0.4        | 2.0        | 5.0        | 2.5         | Not Restricted |
| Benzyl salicylate                                            | 118-58-1    |               | 42        | 0.5                                | 0.7        | 2.7        | 8.0        | 4.2        | 12.8       | 1.3        | 2.0        | 5.0        | 2.5         | Not Restricted |
| $\alpha$ -Butylcinnamaldehyde                                | 7492-44-6   |               | 46        | 0.03                               | 0.04       | 0.15       | 0.45       | 0.24       | 0.72       | 0.08       | 1.01       | 5.0        | 2.5         | Not Restricted |
| p-tert-Butyldihydrocinnamaldehyde (Bourgeonal)               | 18127-01-0  |               | 43        | 0.03                               | 0.04       | 0.2        | 0.5        | 0.3        | 0.8        | 0.1        | 0.6        | 0.6        | 0.6         | Not Restricted |
| p-tert-Butyl- $\alpha$ -methylhydrocinnamic aldehyde (BMHCA) | 80-54-6     |               | 47        | 0.1                                | 0.2        | 0.6        | 1.9        | 1.0        | 3.0        | 0.3        | 2.0        | 2.5        | 2.5         | Not Restricted |
| Carvone                                                      | 99-49-0     |               |           |                                    |            |            |            |            |            |            |            |            |             |                |
| d-Carvone                                                    | 2244-16-8   |               | 43        | 0.08                               | 0.1        | 0.4        | 1.2        | 0.6        | 1.9        | 0.2        | 2.0        | 5.0        | 2.5         | Not Restricted |
| l-Carvone                                                    | 6485-40-1   |               |           |                                    |            |            |            |            |            |            |            |            |             |                |
| Cinnamic alcohol                                             | 104-54-1    |               | 43        | 0.09                               | 0.1        | 0.4        | 0.4        | 0.4        | 2.2        | 0.2        | 0.4        | 0.4        | 0.4         | Not Restricted |
| Cinnamic aldehyde                                            | 104-55-2    |               | 47        | 0.02                               | 0.02       | 0.05       | 0.05       | 0.05       | 0.4        | 0.04       | 0.05       | 0.05       | 0.05        | Not Restricted |
| Cinnamic aldehyde dimethyl acetal                            | 4364-06-1   |               | 44        | 0.02                               | 0.03       | 0.12       | 0.37       | 0.20       | 0.59       | 0.06       | 0.80       | 4.10       | 2.50        | Not Restricted |
| Cinnamyl nitrile                                             | 1885-38-7   |               |           |                                    |            |            |            |            |            |            |            |            |             |                |
|                                                              | 4360-47-8   |               | 43        | 0.03                               | 0.04       | 0.125      | 0.125      | 0.125      | 0.80       | 0.08       | 0.125      | 0.125      | 0.125       | Not Restricted |
| Citral                                                       | 5392-40-5   | 1             | 40        | 0.04                               | 0.05       | 0.2        | 0.6        | 0.3        | 1.0        | 0.1        | 1.4        | 5.0        | 2.5         | Not Restricted |
|                                                              | 141-27-5    |               |           |                                    |            |            |            |            |            |            |            |            |             |                |
|                                                              | 106-26-3    |               |           |                                    |            |            |            |            |            |            |            |            |             |                |
| Citronellol                                                  | 106-22-9    |               | 42        | 0.8                                | 1.1        | 4.4        | 13.3       | 7.0        | 21.4       | 2.2        | 2.0        | 5.0        | 2.5         | Not Restricted |
|                                                              | 1117-61-9   |               |           |                                    |            |            |            |            |            |            |            |            |             |                |
|                                                              | 26489-01-0  |               |           |                                    |            |            |            |            |            |            |            |            |             |                |
|                                                              | 6812-78-8   |               |           |                                    |            |            |            |            |            |            |            |            |             |                |
|                                                              | 141-25-3    |               |           |                                    |            |            |            |            |            |            |            |            |             |                |
|                                                              | 68916-43-8  |               |           |                                    |            |            |            |            |            |            |            |            |             |                |
|                                                              | 7540-51-4   |               |           |                                    |            |            |            |            |            |            |            |            |             |                |
| Coumarin                                                     | 91-64-5     |               | 43        | 0.1                                | 0.13       | 0.5        | 1.6        | 0.8        | 2.5        | 0.3        | 2.0        | 5.0        | 2.5         | Not Restricted |
| Cuminaldehyde                                                | 122-03-2    |               | 47        | 0.03                               | 0.04       | 0.17       | 0.5        | 0.26       | 0.8        | 0.08       | 1.1        | 5.0        | 2.5         | Not Restricted |
| Cyclamen aldehyde                                            | 103-95-7    |               | 47        | 0.17                               | 0.22       | 0.89       | 2.67       | 1.4        | 4.28       | 0.45       | 2.0        | 5.0        | 2.5         | Not Restricted |
| Cyclopentadecanolide                                         | 106-02-5    |               | 47        | 0.16                               | 0.2        | 0.83       | 2.5        | 1.31       | 3.93       | 0.42       | 2.0        | 5.0        | 2.5         | Not Restricted |
| Dibenzyl ether                                               | 103-50-4    |               | 44        | 0.07                               | 0.08       | 0.35       | 1.04       | 0.55       | 1.67       | 0.17       | 2.00       | 5.00       | 2.50        | Not Restricted |
| Dihydrocoumarin                                              | 119-84-6    |               | 47        | 0.029                              | 0.037      | 0.15       | 0.45       | 0.24       | 0.72       | 0.08       | 1.01       | 5.00       | 2.50        | Not Restricted |
| Dimethylcyclohex-3-ene-1-carbaldehyde (mixed isomers)        | 68737-61-1  |               | 47        | 0.17                               | 0.22       | 0.89       | 2.7        | 1.4        | 4.3        | 0.45       | 2.0        | 5.0        | 2.5         | Not Restricted |
|                                                              | 68039-49-6  |               |           |                                    |            |            |            |            |            |            |            |            |             |                |
|                                                              | 68039-48-5  |               |           |                                    |            |            |            |            |            |            |            |            |             |                |
|                                                              | 27939-60-2  |               |           |                                    |            |            |            |            |            |            |            |            |             |                |
|                                                              | 67801-65-4  |               |           |                                    |            |            |            |            |            |            |            |            |             |                |
|                                                              | 36635-35-5  |               |           |                                    |            |            |            |            |            |            |            |            |             |                |
|                                                              | 68084-52-6  |               |           |                                    |            |            |            |            |            |            |            |            |             |                |
|                                                              | 35145-02-9  |               |           |                                    |            |            |            |            |            |            |            |            |             |                |
| 1-(5,5-Dimethyl-1-cyclohexen-1-yl)pent-4-en-1-one            | 56973-85-4  |               | 44        | 0.07                               | 0.09       | 0.38       | 1.13       | 0.60       | 1.81       | 0.19       | 2.00       | 5.00       | 2.50        | Not Restricted |
| 2,2-Dimethyl-3-(3-tolyl)propan-1-ol (Majantol)               | 103694-68-4 |               | 45        | 0.28                               | 0.36       | 1.5        | 4.5        | 2.4        | 7.2        | 0.8        | 2.0        | 5.0        | 2.5         | Not Restricted |
| 2-Ethoxy-4-methylphenol                                      | 2563-07-7   |               | 43        | 0.01                               | 0.01       | 0.03       | 0.1        | 0.1        | 0.2        | 0.02       | 0.2        | 1.2        | 1.9         | Not Restricted |
| p-Ethylbenzaldehyde                                          | 4748-78-1   |               |           |                                    |            |            |            |            |            |            |            |            |             |                |

|                                                                                  |            |  |    |       |       |       |       |       |       |       |       |       |       |                |
|----------------------------------------------------------------------------------|------------|--|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------|
| Hexyl salicylate                                                                 | 6259-76-3  |  | 42 | 1.0   | 1.3   | 5.3   | 16.0  | 8.4   | 25.7  | 2.7   | 2.0   | 5.0   | 2.5   | Not Restricted |
| Hydroxycitronellal                                                               | 107-75-5   |  | 47 | 0.1   | 0.2   | 0.8   | 1.0   | 1.0   | 3.6   | 0.4   | 1.0   | 1.0   | 1.0   | Not Restricted |
| 3and4-(4-Hydroxy-4-methylpentyl)-3-cyclohexene-1-carboxaldehyde (HMPCC)          | 31906-04-4 |  | 47 | 0.02  | 0.02  | 0.2   | 0.2   | 0.2   | 0.2   | 0.02  | 0.2   | 0.2   | 0.2   | Not Restricted |
|                                                                                  | 51414-25-6 |  |    |       |       |       |       |       |       |       |       |       |       |                |
| p-Isobutyl- $\alpha$ -methyl hydrocinnamaldehyde                                 | 6658-48-6  |  | 44 | 0.07  | 0.08  | 0.35  | 1.04  | 0.55  | 1.67  | 0.17  | 2.00  | 5.00  | 2.50  | Not Restricted |
| Isocyclocitral                                                                   | 1335-66-6  |  | 42 | 0.2   | 0.3   | 1.1   | 3.2   | 1.7   | 5.1   | 0.5   | 2.0   | 5.0   | 2.5   | Not Restricted |
|                                                                                  | 1423-46-7  |  |    |       |       |       |       |       |       |       |       |       |       |                |
|                                                                                  | 67634-07-5 |  |    |       |       |       |       |       |       |       |       |       |       |                |
| Isocyclogeraniol                                                                 | 68527-77-5 |  | 43 | 0.11  | 0.14  | 0.5   | 0.5   | 0.5   | 2.8   | 0.3   | 0.5   | 0.5   | 0.5   | Not Restricted |
| Isoeugenol                                                                       | 97-54-1    |  | 43 | 0.01  | 0.01  | 0.02  | 0.02  | 0.02  | 0.2   | 0.02  | 0.02  | 0.02  | 0.02  | Not Restricted |
| Jasmine absolute (grandiflorum)                                                  | 8022-96-6  |  | 43 | 0.04  | 0.05  | 0.22  | 0.7   | 0.4   | 1.1   | 0.1   | 1.5   | 5.0   | 2.5   | Not Restricted |
|                                                                                  | 8024-43-9  |  |    |       |       |       |       |       |       |       |       |       |       |                |
|                                                                                  | 90045-94-6 |  |    |       |       |       |       |       |       |       |       |       |       |                |
|                                                                                  | 84776-64-7 |  |    |       |       |       |       |       |       |       |       |       |       |                |
| Jasmine absolute (sambac)                                                        | 91770-14-8 |  | 43 | 0.25  | 0.32  | 1.33  | 4.0   | 2.1   | 6.4   | 0.7   | 2.0   | 5.0   | 2.5   | Not Restricted |
| Melissa oil (genuine Melissa officinalis L.)                                     | 8014-71-9  |  | 44 | 0.04  | 0.05  | 0.21  | 0.63  | 0.33  | 1.01  | 0.11  | 1.40  | 5.00  | 2.50  | Not Restricted |
|                                                                                  | 84082-61-1 |  |    |       |       |       |       |       |       |       |       |       |       |                |
| p-Mentha-1,8-dien-7-al (Perilla aldehyde)                                        | 2111-75-3  |  | 47 | 0.02  | 0.03  | 0.1   | 0.1   | 0.1   | 0.5   | 0.05  | 0.1   | 0.1   | 0.1   | Not Restricted |
| Menthadiene-7-methyl formate                                                     | 68683-20-5 |  | 43 | 0.03  | 0.04  | 0.1   | 0.1   | 0.1   | 0.8   | 0.08  | 0.1   | 0.1   | 0.1   | Not Restricted |
| p-Methoxybenzaldehyde                                                            | 123-11-5   |  | 47 | 0.1   | 0.13  | 0.54  | 1.61  | 0.84  | 2.53  | 0.27  | 2     | 5     | 2.5   | Not Restricted |
| o-Methoxycinnamaldehyde                                                          | 1504-74-1  |  | 46 | 0.03  | 0.04  | 0.15  | 0.45  | 0.24  | 0.72  | 0.08  | 1.01  | 5.0   | 2.5   | Not Restricted |
| Methoxy dicyclopentadiene carboxaldehyde (Scentenal)                             | 86803-90-9 |  | 43 | 0.1   | 0.2   | 0.5   | 0.5   | 0.5   | 3.6   | 0.4   | 0.5   | 0.5   | 0.5   | Not Restricted |
| 4-Methoxy- $\alpha$ -methylbenzenepropanal                                       | 5462-06-6  |  | 47 | 0.17  | 0.22  | 0.89  | 2.67  | 1.40  | 4.28  | 0.45  | 2.00  | 5.00  | 2.50  | Not Restricted |
| 2-Methoxy-4-methylphenol                                                         | 93-51-6    |  | 43 | 0.003 | 0.004 | 0.01  | 0.01  | 0.01  | 0.09  | 0.009 | 0.01  | 0.01  | 0.01  | Not Restricted |
| $\alpha$ -Methyl-1,3-benzodioxole-5-propionaldehyde (MMDHCA)                     | 1205-17-0  |  | 47 | 0.34  | 0.43  | 1.78  | 5.3   | 2.8   | 8.6   | 0.89  | 2.0   | 5.0   | 2.5   | Not Restricted |
| $\alpha$ -Methyl cinnamic aldehyde                                               | 101-39-3   |  | 42 | 0.1   | 0.1   | 0.5   | 1.6   | 0.8   | 2.5   | 0.3   | 2.0   | 5.0   | 2.5   | Not Restricted |
| 6-Methyl-3,5-heptadien-2-one (methyl heptadienone)                               | 1604-28-0  |  | 44 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.100 | 0.002 | 0.002 | 0.002 | 0.002 | Not Restricted |
| Methyl heptene carbonate                                                         | 111-12-6   |  | 43 | 0.003 | 0.004 | 0.01  | 0.01  | 0.01  | 0.08  | 0.008 | 0.01  | 0.01  | 0.01  | Not Restricted |
| Methyl ionone, mixed isomers                                                     | 1335-46-2  |  | 43 | 2.0   | 2.6   | 10.6  | 31.7  | 16.7  | 50.7  | 5.3   | 2.0   | 5.0   | 2.5   | Not Restricted |
|                                                                                  | 127-42-4   |  |    |       |       |       |       |       |       |       |       |       |       |                |
|                                                                                  | 127-43-5   |  |    |       |       |       |       |       |       |       |       |       |       |                |
|                                                                                  | 127-51-5   |  |    |       |       |       |       |       |       |       |       |       |       |                |
|                                                                                  | 7779-30-8  |  |    |       |       |       |       |       |       |       |       |       |       |                |
| Methyl octene carbonate                                                          | 111-80-8   |  | 43 | 0.001 | 0.001 | 0.002 | 0.002 | 0.002 | 0.02  | 0.002 | 0.002 | 0.002 | 0.002 | Not Restricted |
| 3-Methyl-2-(pentyloxy)cyclopent-2-en-1-one                                       | 68922-13-4 |  | 46 | 0.03  | 0.04  | 0.17  | 0.50  | 0.26  | 0.80  | 0.08  | 1.11  | 5.0   | 2.5   | Not Restricted |
| 2-Nonyn-1-al dimethyl acetal                                                     | 13257-44-8 |  | 46 | 0.66  | 0.84  | 3.47  | 10.41 | 5.48  | 16.67 | 1.74  | 2.0   | 5.0   | 2.5   | Not Restricted |
| Oakmoss extracts                                                                 | 90028-68-5 |  | 43 | 0.02  | 0.03  | 0.1   | 0.1   | 0.1   | 0.5   | 0.1   | 0.1   | 0.1   | 0.1   | Not Restricted |
|                                                                                  | 9000-50-4  |  |    |       |       |       |       |       |       |       |       |       |       |                |
|                                                                                  | 68917-10-2 |  |    |       |       |       |       |       |       |       |       |       |       |                |
| OTNE (1-(1,2,3,4,5,6,7,8 Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl) ethanone) | 54464-57-2 |  | 43 | 1.34  | 1.73  | 7.1   | 21.4  | 11.2  | 34.2  | 3.6   | 2.0   | 5.0   | 2.5   | Not Restricted |
| 1-Octen-3-yl acetate                                                             | 2442-10-6  |  | 43 | 0.1   | 0.1   | 0.3   | 0.3   | 0.3   | 2.5   | 0.3   | 0.3   | 0.3   | 0.3   | Not Restricted |
| Opoponax (all forms)                                                             | 8021-36-1  |  | 47 | 0.03  | 0.04  | 0.15  | 0.45  | 0.24  | 0.6   | 0.08  | 0.6   | 0.6   | 0.6   | Not Restricted |
|                                                                                  | 9000-78-6  |  |    |       |       |       |       |       |       |       |       |       |       |                |
|                                                                                  | 93384-32-8 |  |    |       |       |       |       |       |       |       |       |       |       |                |
| Peru balsam extracts and distillates                                             | 8007-00-9  |  | 43 | 0.03  | 0.04  | 0.1   | 0.4   | 0.    |       |       |       |       |       |                |

|                                             |            |    |       |       |       |       |       |      |       |       |       |       |                |
|---------------------------------------------|------------|----|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|----------------|
|                                             | 33673-71-1 |    |       |       |       |       |       |      |       |       |       |       |                |
|                                             | 35087-49-1 |    |       |       |       |       |       |      |       |       |       |       |                |
|                                             | 35044-68-9 |    |       |       |       |       |       |      |       |       |       |       |                |
| Styrax (distillates)                        | 94891-27-7 | 47 | 0.04  | 0.05  | 0.23  | 0.6   | 0.36  | 0.6  | 0.11  | 0.6   | 0.6   | 0.6   | Not Restricted |
|                                             | 94981-28-8 |    |       |       |       |       |       |      |       |       |       |       |                |
| Teal leaf absolute                          | 84650-60-2 | 40 | 0.01  | 0.02  | 0.07  | 0.2   | 0.1   | 0.3  | 0.04  | 0.5   | 2.4   | 2.5   | Not Restricted |
|                                             | 90028-67-4 |    |       |       |       |       |       |      |       |       |       |       |                |
| Tree moss extracts                          | 68648-41-9 | 43 | 0.02  | 0.03  | 0.1   | 0.1   | 0.1   | 0.5  | 0.1   | 0.1   | 0.1   | 0.1   | Not Restricted |
|                                             | 68917-40-8 |    |       |       |       |       |       |      |       |       |       |       |                |
|                                             | 529-20-4   |    |       |       |       |       |       |      |       |       |       |       |                |
|                                             | 620-23-5   | 47 | 0.03  | 0.04  | 0.17  | 0.5   | 0.26  | 0.8  | 0.08  | 1.11  | 5     | 2.5   | Not Restricted |
|                                             | 104-87-0   |    |       |       |       |       |       |      |       |       |       |       |                |
|                                             | 1334-78-7  |    |       |       |       |       |       |      |       |       |       |       |                |
| 2,6,6-Trimethylcyclohex-1,3-dienyl methanal | 116-26-7   | 47 | 0.001 | 0.001 | 0.004 | 0.005 | 0.005 | 0.02 | 0.002 | 0.005 | 0.005 | 0.005 | Not Restricted |
|                                             | 8024-12-2  |    |       |       |       |       |       |      |       |       |       |       |                |
| Verbena absolute (Lippia citriodora Kunth.) | 85116-63-8 | 45 | 0.05  | 0.06  | 0.2   | 0.2   | 0.2   | 1.2  | 0.12  | 0.2   | 0.2   | 0.2   | Not Restricted |
|                                             | 117-98-6   |    |       |       |       |       |       |      |       |       |       |       |                |
|                                             | 62563-80-8 |    |       |       |       |       |       |      |       |       |       |       |                |
| Vetiveryl acetate                           | 68917-34-0 | 44 | 0.07  | 0.08  | 0.35  | 1.04  | 0.55  | 1.67 | 0.17  | 2.00  | 5.00  | 2.50  | Not Restricted |
|                                             | 73246-97-6 |    |       |       |       |       |       |      |       |       |       |       |                |
|                                             | 84082-84-8 |    |       |       |       |       |       |      |       |       |       |       |                |
|                                             | 8006-81-3  |    |       |       |       |       |       |      |       |       |       |       |                |
| Ylang ylang extracts                        | 68606-83-7 | 43 | 0.05  | 0.06  | 0.27  | 0.8   | 0.4   | 1.3  | 0.1   | 1.8   | 5.0   | 2.5   | Not Restricted |
|                                             | 83863-30-3 |    |       |       |       |       |       |      |       |       |       |       |                |

Please note, it is the responsibility of the customer to ensure the safety of the final product containing this product by further testing if necessary.

**1** Lip Products of all types; Toys;

**2** Deodorant and Antiperspirant Products of all types

**3** Hydroalcoholic Products Applied To Recently Shaved Skin; Eye Products of all types; Men's Facial Creams, Balms; Tampons; Baby Creams, Lotions, Oils

**4** Hydroalcoholic Products Applied To Unshaved Skin (includes body mists (aqueous based, alcoholic based and hydroalcoholic)); Hair Styling Aids, Hair Sprays of all types (pumps, aerosol sprays, etc.); Body Creams, Oils, Lotions, Fragrancing Creams of all types (except baby creams and lotions); Ingredients of Perfume Kits; Fragrance Compounds for Cosmetic Kits; Scent Pads, Foil Packs; Scent Strips for Hydroalcoholic Products; Foot Care Products; Hair Deodorant.

**5** Women's Facial Creams/Facial Make-up; Hand Cream; Facial Masks; Baby Powder and Talc; Hair Permanent and Other Hair Chemical Treatments (e.g. relaxers) but not hair dyes; Wipes or Refreshing Tissues for Face, Neck, Hands, Body; Hand Sanitizers.

**6** Mouthwash; toothpaste

**7** Intimate wipes; baby wipes; insect repellent (intended to be applied to the skin)

**8** Make-up Removers of all types (not including face cleansers); Hair Styling Aids Non-Spray of all types; Nail Care; All powders and talcs (except baby powders and talcs); Hair Dyes.

**9** Bar Soap (Toilet Soap); Bath Gels, Foams, Mousses, Salts, Oils and Other Products Added To Bathwater; Body Washes of all types (including baby washes) and Shower Gels of all types; Conditioner (Rinse-Off); Depilatory Face Cleansers of all types (washes, gels, scrubs, etc.); Facial Tissues; Feminine Hygiene – Pads

Feminine Hygiene – Liners; Liquid Soap; Napkins; Paper Towels; Shampoos of all types (including baby shampoos); Shaving Creams of all types (stick, gels, foams, etc.); Toilet Paper; Other Aerosols (including air fresheners sprays but not including deodorant/antiperspirants, hair styling aids spray)

**10** Handwash Laundry Detergents of all types including Concentrates; Fabric Softeners of all types including fabric softener sheets; Other Household Cleaning Products (fabric cleaners, floor surface cleaners, carpet cleaners); Machine Wash Laundry Detergents (liquids, powders, tablets, etc.) including laundry bleaches and concentrates; Hand Dishwashing Detergent including concentrates; Hard Surface Cleaners of all types (bathroom and kitchen cleansers, furniture polish); Diapers; Shampoos for Pets; Dry Cleaning Kits; Toilet Seat Wipes

**11** All non-skin contact or incidental skin contact. Including: Air Fresheners and Fragrancing of all types (plug-ins, solid substrate, membrane delivery, electrical, pot pourri, powders, fragrancing sachets, incense, liquid refills, air freshening crystals); Animal Sprays; Candles; Cat litter; Deodorizers/Maskers Not Intended For Skin Contact (e.g. fabric drying machine deodorizers, carpet powders); Floor wax; Fragranced lamp ring; Fuels; Infused socks; Insecticides (e.g. mosquito coil, paper, electrical, for clothing); Joss Sticks or Incense Sticks; Machine Dishwash Detergent and Deodorizers; Machine Only Laundry Detergent (e.g. liquid tabs)

Odored Distilled Water (that can be added to steam irons); Paints; Plastic articles (excluding toys); Reed diffusers; Scratch and sniff; Scent pack; Scent delivery system (using dry air technology); Shoe Polishes; Toilet Blocks; Treated Textiles (e.g. starch sprays, fabric treated with fragrances after wash, deodorizers for textiles or fabrics, tights with moisturizers) *Note: Due to the expected negligible skin exposure from such products the risk of induction of dermal sensitization through the normal formulation and use of such products is considered to be negligible. As such, the concentration of fragrance ingredient is not restricted in the finished product.*



## SAFETY DATA SHEET / FICHA DE DATOS DE SEGURIDAD PALMAROSA OIL

### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

|                       |                                                                                                                                                                 |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PRODUCT NAME          | PALMAROSA OIL                                                                                                                                                   |
| CAS-NO.               | 84649-81-0                                                                                                                                                      |
| EC (EINECS) NO.       | 283-461-2                                                                                                                                                       |
| PRODUCT NO.           | PALMAR1000                                                                                                                                                      |
| SYNONYMS, TRADE NAMES | cymbopogon martini                                                                                                                                              |
| APPLICATION           | Fragrances & Flavours                                                                                                                                           |
| SUPPLIER              | El Jabón Artesanal<br>Manuel Vicente Nievas<br>C/ Río Tajo nº 53<br>18110 Las Gabias, (Granada-España)<br>Telf. (+34) 637594492<br>eljabonartesanal@hotmail.com |

Teléfono de emergencia: INSTITUTO NACIONAL DE TOXICOLOGIA MADRID 915620420

### 2 HAZARDS IDENTIFICATION

CLASSIFICATION (1999/45) Xi;R38, R41. R43. R52/53.

CLASSIFICATION (EC 1272/2008)

|                               |                                                              |
|-------------------------------|--------------------------------------------------------------|
| Physical and Chemical Hazards | Not classified.                                              |
| Human health                  | Skin Irrit. 2 - H315; Eye Dam. 1 - H318; Skin Sens. 1 - H317 |
| Environment                   | Aquatic Acute 2 - H401; Aquatic Chronic 3 - H412             |

LABEL IN ACCORDANCE WITH (EC) NO. 1272/2008



|             |                                                                                  |
|-------------|----------------------------------------------------------------------------------|
| SIGNAL WORD | Danger                                                                           |
| CONTAINS    | CITRAL<br>Geraniol<br>Geranyl Acetate<br>LIMONENE<br>Linalool<br>Methyl Chavicol |

HAZARD STATEMENTS

|      |                                      |
|------|--------------------------------------|
| H315 | Causes skin irritation.              |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage.           |

**PALMAROSA OIL**

|                                        |              |                                                                                                                                  |
|----------------------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------|
| PRECAUTIONARY STATEMENTS               | H401         | Toxic to aquatic life.                                                                                                           |
|                                        | H412         | Harmful to aquatic life with long lasting effects.                                                                               |
|                                        | P280         | Wear protective gloves/protective clothing/eye protection/face protection.                                                       |
|                                        | P262         | Do not get in eyes, on skin, or on clothing.                                                                                     |
| SUPPLEMENTARY PRECAUTIONARY STATEMENTS | P305+351+338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
|                                        | P261         | Avoid breathing dust/fume/gas/mist/vapours/spray.                                                                                |
|                                        | P264         | Wash ... thoroughly after handling.                                                                                              |
|                                        | P272         | Contaminated work clothing should not be allowed out of the workplace.                                                           |
|                                        | P273         | Avoid release to the environment.                                                                                                |
|                                        | P302+352     | IF ON SKIN: Wash with plenty of soap and water.                                                                                  |
|                                        | P310         | Immediately call a POISON CENTER or doctor/physician.                                                                            |
|                                        | P321         | Specific treatment (see ... on this label).                                                                                      |
|                                        | P332+313     | If skin irritation occurs: Get medical advice/attention.                                                                         |
|                                        | P333+313     | If skin irritation or rash occurs: Get medical advice/attention.                                                                 |
|                                        | P362         | Take off contaminated clothing and wash before reuse.                                                                            |
|                                        | P363         | Wash contaminated clothing before reuse.                                                                                         |
|                                        | P501         | Dispose of contents/container to ...                                                                                             |

**ENVIRONMENT**

The product contains a substance which is harmful to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

**HUMAN HEALTH**

May cause sensitisation by skin contact.

**3 COMPOSITION/INFORMATION ON INGREDIENTS**

|                               |                             |                   |
|-------------------------------|-----------------------------|-------------------|
| CITRAL                        |                             | 1-5%              |
| CAS-No.: 5392-40-5            |                             | EC No.: 226-394-6 |
| Classification (EC 1272/2008) | Classification (67/548/EEC) |                   |
| Skin Irrit. 2 - H315          | R43                         |                   |
| Skin Sens. 1 - H317           | Xi;R38                      |                   |
| Geraniol                      |                             | 60-100%           |
| CAS-No.: 106-24-1             |                             | EC No.: 203-377-1 |
| Classification (EC 1272/2008) | Classification (67/548/EEC) |                   |
| Acute Tox. 5 - H303           | Xi;R38,R41.                 |                   |
| Skin Irrit. 2 - H315          | R43.                        |                   |
| Eye Dam. 1 - H318             |                             |                   |
| Skin Sens. 1 - H317           |                             |                   |
| Aquatic Acute 2 - H401        |                             |                   |
| Geranyl Acetate               |                             | 5-10%             |
| CAS-No.: 105-87-3             |                             | EC No.: 203-341-5 |
| Classification (EC 1272/2008) | Classification (67/548/EEC) |                   |
| Aquatic Chronic 2 - H411      | N;R51/53.                   |                   |

## PALMAROSA OIL

|                               |                             |                   |
|-------------------------------|-----------------------------|-------------------|
| LIMONENE                      |                             | 1-5%              |
| CAS-No.: 138-86-3             |                             | EC No.: 205-341-0 |
| Classification (EC 1272/2008) | Classification (67/548/EEC) |                   |
| Flam. Liq. 3 - H226           | R10                         |                   |
| Skin Irrit. 2 - H315          | R43                         |                   |
| Skin Sens. 1 - H317           | Xi;R38                      |                   |
| Aquatic Acute 1 - H400        | N;R50/53                    |                   |
| Aquatic Chronic 1 - H410      |                             |                   |
| Linalool                      |                             | 1-5%              |
| CAS-No.: 78-70-6              |                             | EC No.: 201-134-4 |
| Classification (EC 1272/2008) | Classification (67/548/EEC) |                   |
| Skin Irrit. 2 - H315          | Xi;R38.                     |                   |
| Methyl Chavicol               |                             | < 1%              |
| CAS-No.: 140-67-0             |                             | EC No.: 205-427-8 |
| Classification (EC 1272/2008) | Classification (67/548/EEC) |                   |
| Acute Tox. 4 - H302           | Xn;R22.                     |                   |
| Skin Sens. 1 - H317           | Carc. Cat. 3;R40,           |                   |
| Muta. 2 - H341                | Muta. Cat. 3;R68.           |                   |
| Carc. 2 - H351                | R43.                        |                   |

The Full Text for all R-Phrases and Hazard Statements is Displayed in Section 16

EC (EINECS) NO. 283-461-2  
CAS-NO. 84649-81-0

#### 4 FIRST-AID MEASURES

##### INHALATION

Remove victim immediately from source of exposure. Get medical attention if any discomfort continues.

##### INGESTION

Immediately rinse mouth and drink plenty of water (200-300 ml). Get medical attention if any discomfort continues.

##### SKIN CONTACT

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.

##### EYE CONTACT

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues.

#### 5 FIRE-FIGHTING MEASURES

##### EXTINGUISHING MEDIA

Use: Water spray. Alcohol resistant foam. Dry chemicals. Extinguish with carbon dioxide or dry powder. Carbon dioxide (CO2).

##### PROTECTIVE MEASURES IN FIRE

Wear: Self-contained breathing apparatus. Wear chemical protective clothing.

#### 6 ACCIDENTAL RELEASE MEASURES

**PALMAROSA OIL****PERSONAL PRECAUTIONS**

Wear protective clothing as described in Section 8 of this safety data sheet. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak side up to prevent the escape of liquid.

**ENVIRONMENTAL PRECAUTIONS**

Do not discharge into drains, water courses or onto the ground. Contain spillages with sand, earth or any suitable adsorbent material.

**SPILL CLEAN UP METHODS**

Soak up spillage with sand or other inert absorbant material such as earth or vermiculite, transfer used material to a suitable waste container and dispose on accordance with regulations.

**7 HANDLING AND STORAGE****STORAGE PRECAUTIONS**

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep containers tightly closed. Keep away from heat, sparks and open flame.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION****PROTECTIVE EQUIPMENT****PROCESS CONDITIONS**

Provide eyewash station.

**ENGINEERING MEASURES**

Provide adequate ventilation.

**RESPIRATORY EQUIPMENT**

Wear suitable respiratory protection.

**HAND PROTECTION**

Chemical resistant gloves (PVC)

**EYE PROTECTION**

Wear approved safety goggles.

**OTHER PROTECTION**

Oil resistant apron, eyewash and safety shower recommended. Wash contaminated clothing before reuse.

**HYGIENE MEASURES**

Good personal hygiene practices are always advisable, especially when working with chemicals.

**PERSONAL PROTECTION**

Avoid inhalation and contact with skin and eyes.

**SKIN PROTECTION**

Wear apron or protective clothing in case of splashes.

**ENVIRONMENTAL EXPOSURE CONTROLS**

Avoid discharging into drainage water. Only eliminate by authorised companies.

**9 PHYSICAL AND CHEMICAL PROPERTIES****APPEARANCE**

Liquid

**COLOUR**

Colourless to pale yellow

**PALMAROSA OIL**

|                  |                         |
|------------------|-------------------------|
| ODOUR            | Rose and Geranium like. |
| RELATIVE DENSITY | 0.879 - 0.900 20        |
| FLASH POINT (°C) | 100                     |
| REFRACTIVE INDEX | 1.467 - 1.480           |

**10 STABILITY AND REACTIVITY****CONDITIONS TO AVOID**

Avoid contact with strong oxidisers. Heat, sparks and open flames.

**MATERIALS TO AVOID**

Strong oxidising substances.

**11 TOXICOLOGICAL INFORMATION****12 ECOLOGICAL INFORMATION****ECOTOXICITY**

We have no data regarding ecotoxicity, but it must be considered that this product may be dangerous for the environment.

**13 DISPOSAL CONSIDERATIONS****DISPOSAL METHODS**

Dispose of in compliance with all local and national regulations.

**14 TRANSPORT INFORMATION**

|         |                |
|---------|----------------|
| GENERAL | Not regulated. |
|---------|----------------|

**15 REGULATORY INFORMATION****EU DIRECTIVES**

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

**GUIDANCE NOTES**

CHIP for everyone HSG(108).

**NATIONAL REGULATIONS**

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

**16 OTHER INFORMATION**

|         |       |
|---------|-------|
| SDS NO. | 10082 |
|---------|-------|

**RISK PHRASES IN FULL**

|        |                                                                                                  |
|--------|--------------------------------------------------------------------------------------------------|
| R10    | Flammable.                                                                                       |
| R22    | Harmful if swallowed.                                                                            |
| R38    | Irritating to skin.                                                                              |
| R40    | Limited evidence of a carcinogenic effect.                                                       |
| R43    | May cause sensitisation by skin contact.                                                         |
| R68    | Possible risk of irreversible effects.                                                           |
| R41    | Risk of serious damage to eyes.                                                                  |
| R51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.      |
| R50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

**PALMAROSA OIL**

## HAZARD STATEMENTS IN FULL

|      |                                                       |
|------|-------------------------------------------------------|
| H318 | Causes serious eye damage.                            |
| H315 | Causes skin irritation.                               |
| H226 | Flammable liquid and vapour.                          |
| H302 | Harmful if swallowed.                                 |
| H303 | May be harmful if swallowed.                          |
| H317 | May cause an allergic skin reaction.                  |
| H351 | Suspected of causing cancer.                          |
| H341 | Suspected of causing genetic defects.                 |
| H411 | Toxic to aquatic life with long lasting effects.      |
| H401 | Toxic to aquatic life.                                |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H400 | Very toxic to aquatic life.                           |

## DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



## PRODUCT SPECIFICATION / FICHA TECNICA

Date: 23 June 2016

|         |                      |
|---------|----------------------|
| Product | <b>PALMAROSA OIL</b> |
|---------|----------------------|

|            |            |
|------------|------------|
| CAS No:    | 84649-81-0 |
| EINECS     | 283-461-2  |
| TARRIF NO: | 3301 2941  |
| ORIGIN:    | INDIA      |

|            |        |
|------------|--------|
| Appearance | Liquid |
|------------|--------|

|         |                           |
|---------|---------------------------|
| Colour: | Colourless to Pale Yellow |
|---------|---------------------------|

|       |                         |
|-------|-------------------------|
| Odour | Rose and Geranium like. |
|-------|-------------------------|

|                         |               |
|-------------------------|---------------|
| Relative Density @ 20c: | 0.879 – 0.900 |
|-------------------------|---------------|

|                   |               |
|-------------------|---------------|
| Refractive Index: | 1.467 – 1.480 |
|-------------------|---------------|

|              |      |
|--------------|------|
| Flash Point: | 100c |
|--------------|------|

|                                  |               |
|----------------------------------|---------------|
| Solubility in 70% Ethanol @ 20c: | Soluble 1 + 2 |
|----------------------------------|---------------|

|           |                                                                                                                            |
|-----------|----------------------------------------------------------------------------------------------------------------------------|
| Stability | When stored for more than 24 months quality should be checked before use. If product is kept sealed shelf life is 2 years. |
|-----------|----------------------------------------------------------------------------------------------------------------------------|

|          |                                                                                                                                                       |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage: | It should be stored in a dry and ventilated warehouse and avoid sundry odours pollution. Sunlight and rain should be prevented during transportation. |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------|

The analytical values are subject to change as common with natural and nature identical products.  
These statements do not release the buyer from the duty of his own controls