

| PRODUCT IDENTIFICATION | |
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| INCI Name | <i>Citrus limonum</i> Oil |
| Botanical source | Obtained by steam distillation of leaves of <i>Citrus limonum L.</i> |
| Botanical family | <i>Rutaceae</i> |
| Status | Conventional |
| Part of Plant Used | Leaves |

| REGULATORY STATUS | |
|-------------------|------------|
| FEMA | 2853 |
| FDA | 182.20 |
| CEE | 139 |
| EINECS | 284-515-8 |
| CAS TSCA | 8008-56-8 |
| CAS EINECS | 84929-31-7 |

| PRINCIPAL CHEMICAL CONSTITUENTS | | | |
|---------------------------------|--------------|-----------------|-------------|
| Limonène | 55.0 - 80.0% | Pinènes | 7.0 – 20.0% |
| Gamma terpinène | 6.0 - 12.0% | Citral | 0.7 – 3.8% |
| Myrcene | ~ 1.8% | Geranyl acetate | 0.1 – 0.8% |

| PHYSICAL PROPERTIES | |
|---------------------------|---------------------------------|
| 1. Appearance | Clear yellow liquid |
| 2. Aroma | Citric, Floral, Green |
| 3. Solubility in water | Insoluble |
| 4. Refractive index @20°C | 1.470 - 1.480 |
| 5. Density @20°C | 0.855 - 0.875 g/cm ³ |
| 6. Optical Rotation @20°C | 14° to 52° |
| 7. Flash point | 55°C |

Stability And Storage: Store in cool, dry and ventilated area, away from heat sources, sparks and open flames, protected from light in tightly closed original container.

Shelf Life: 24 months from dispatching date on, under normal storage conditions

Transport: UN 1197, Extracts, Aromatic, Liquid, n.o.s. (3Y), 3, III

EC Dir.Labelling: Xn, Xi; C, R10, R38, R50/53, R65, R43, S24, S37, S61, S62

CLP/GHS labeling: H226, H304, H315, H317, H400, H410, GHS07, GHS02, GHS09, GHS08,

We certify that the aforementioned product is 100% pure and natural, is free of any additives, strictly originates from Egyptian raw material, and complies with FCC guidelines

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| Approved by: | QA | Version: | 20 Jan 2019 |
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