

## TECHNICAL DATA SHEET

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<b>Item Code</b>	: RM0019	<b>Date</b>	: 12/08/2013
<b>Item Name</b>	: LEMON OIL CALIFORNIA	<b>Version</b>	: 01

<b>CAS #</b>	8008-56-8 <sup>1</sup>
<b>FEMA #</b>	2625
<b>EINECS #</b>	284-515-8
<b>BOTANICAL NAME</b>	<i>Citrus limon</i>
<b>Product Description</b>	Clear yellow to yellowish green liquid with characteristic odour
<b>Origin</b>	Obtained by the expression, without the use of heat from the fresh peel of the ripe fruit of the tree <i>Citrus limon</i> .

### PHYSICO-CHEMICAL PROPERTIES:

<b>Appearance</b>	Clear yellow to yellowish green		
<b>Physical Status</b>	Liquid		
<b>Flash Point (Closed cup)°C</b>	46.11° C		
<b>Refractive Index</b>	1.473 – 1.476 @ 20 °C		
<b>Relative Density</b>	0.851 – 0.858 @ 20°C		
<b>Optical Rotation</b>	+57° to +65.6°		
<b>Solubility in Alcohol</b>	1:3 in 95% alcohol		
<b>Solubility in Water</b>	Insoluble		
<b>Assay by GC/MS (%)</b>	Limonene	Para-cymene	Gamma-terpenene
	α -Thujene	α -Pinene	β -Bisabolene
	Geranial	Neral	
	Neryl acetate	Geranyl acetate	

<b>Shelf Life</b>	12 months with proper storage conditions.
<b>Legislation</b>	Natural
<b>Stability</b>	Avoid strong acids strong bases & all oxidizing agents.

<b>HANDLING PRECAUTION</b>	Handle with adequate ventilation Avoiding skin & eye contact. Use goggles or face shield safety gloves and wear protective clothing.
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<b>PACKING &amp; STORAGE</b>	Should be stored in cool, dry, well ventilated places in full, tightly sealed containers. Protected from light & source of ignition. Packed in Aluminium, HDPE Food Grade Cans, MS Coated Drums, GI Drums. Avoid long contact with Iron, heat and light.
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