



NEW DIRECTIONS
A R O M A T I C S

MATERIAL SAFETY DATA SHEET

1. Product Identification:

Product Name: **Lavender Oil - Population**
Botanical Name: *Lavandula angustifolia*
Synonyms: *Lavandula officinalis* Chaix., *Lavandula spica* L., *Lavandula vera* DC.
INCI Name: Lavandula angustifolia (lavender) oil
CAS #: 8000-28-0
Country of Origin: France

2. Classification:

Chemical Identification: Oil, Lavender
EINECS #: 289-995-2
24 HOUR EMERGENCY TELEPHONE NUMBER: (613)-996-6666 CANUTEC

3. Hazardous Ingredients Information:

N/A

4. Physical & Chemical Properties:

Appearance: Pale yellow liquid.
Odor: Characteristic odor.
Solubility: Soluble in alcohol and oils. Insoluble in water.
Specific Gravity: 0.860 – 0.900 @ 20°C
Optical Rotation: -18.0 – +8.0 @ 20°C
Refractive Index: 1.455 – 1.465 @ 20°C
Linalool: 25 – 38 % by g.c.
Linalyl Acetate: 25 – 45 % by g.c.
Extraction Method: Steam distillation of the flowering tops.
Contents: Limonene, cineole, cis-ocimene, trans-ocimene, linalool, camphor, lavandulol, terpinene-4-ol, terpineol, linalyl acetate, lavandulyl acetate
Flash Point: 64 °C Open Cup

5. Fire/Explosion Hazard:

Flash Point: 64 °C open cup
Combustible liquid. Will ignite if moderately heated.

6. Reactivity/Stability Data:

Reactivity: Stable.

Decomposition: When heated to decomposition produces toxic fumes and carbon monoxide smoke.

7. Toxicological Properties/Information:

Oral (rat), LD₅₀ >5.0 g/kg

Dermal (rabbit), LD₅₀ >5.0 g/kg

8. Preventive Data:

Spillage: Absorb spills, cover with an inert, non-combustible, inorganic absorbent material, and remove to an approved disposal container.

Fire: Recommended extinguishing media – CO₂, foam and dry chemicals. DO NOT use direct water jet on burning material.

Environment: Keep away from drains, surface and ground water.

Storage: Store in cool, dry and well ventilated area protected in tightly closed container away from sources of ignition, heat and sunlight. Keep air contact to minimum.

9. First Aid Measures:

Eye contact: Flush with water for at least 15 minutes. Call physician if irritation persists.

Inhalation: Remove to fresh air. Avoid casual breathing.

Ingestion: Rinse mouth and consult a physician immediately. Never-give anything by mouth if victim is unconscious, is rapidly-losing consciousness, or is convulsing.

Skin contact: Remove contaminated clothing. Wash with soap and plenty of water.

11. Individual Protection (For Industrial and Bulk Container Use):

Use safety glasses.

Avoid breathing in product by ensuring good ventilation when handling.

Avoid skin contact by using chemical resistant gloves.

12. Preparation Information:

Quality Assurance

New Directions Aromatics Inc.

Brampton ON

L7A 1C5

Revision Date: December 21, 2009.

Disclaimer

The information contained in this Certificate of Analysis and Material Safety Data Sheet are obtained from current and reliable sources. As the ordinary or otherwise use(s) of this product is outside the control of New Directions Aromatics Inc., no representation or warranty, expressed or implied is made as to the effect(s) of such use(s) (including damage or injury), or the results obtained.

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CERTIFICATE OF ANALYSIS

PRODUCT: LAVENDER ESSENTIAL OIL - POPULATION
PRODUCT NO: 11079

LOT NO: 11079-A12
(-B12, -C12, -D12)

	Specifications:	Results:
Appearance:	Clear to pale yellow liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.860 – 0.900 @ 20°C	Complies
Optical Rotation:	-18.0 – +8.0 @ 20°C	Complies
Refractive Index:	1.455 – 1.465 @ 20°C	Complies
Linalool:	25 – 38 %	Complies
Linalyl Acetate:	25 – 45 %	Complies

CERTIFICATE OF ANALYSIS

PRODUCT: LAVENDER ESSENTIAL OIL - POPULATION
PRODUCT NO: 11079

LOT NO: 11079-A13
11079-B13

	Specifications:	Results:
Appearance:	Pale yellow liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.860 – 0.900 @ 20°C	Complies
Optical Rotation:	-18.0 – +8.0 @ 20°C	Complies
Refractive Index:	1.455 – 1.465 @ 20°C	Complies
Linalool:	25 – 38 %	Complies
Linalyl Acetate:	25 – 45 %	Complies
Retest Date:	August 2012	

CERTIFICATE OF ANALYSIS

PRODUCT: LAVENDER ESSENTIAL OIL - POPULATION
PRODUCT NO: 11079

LOT NO: 11079-A07

	Specifications:	Results:
Appearance:	Pale yellow liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.860 – 0.900 @ 20°C	Complies
Optical Rotation:	-18.0 – +8.0 @ 20°C	Complies
Refractive Index:	1.455 – 1.465 @ 20°C	Complies
Linalool:	25 – 38 %	Complies
Linalyl Acetate:	25 – 45 %	Complies

CERTIFICATE OF ANALYSIS

PRODUCT: LAVENDER ESSENTIAL OIL - POPULATION

PRODUCT NO: 11079

**LOT NO: 11079-A08
(-B08)**

	Specifications:	Results:
Appearance:	Pale yellow liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.860 – 0.900 @ 20°C	Complies
Optical Rotation:	-18.0 – +8.0 @ 20°C	Complies
Refractive Index:	1.455 – 1.465 @ 20°C	Complies
Linalool:	25 – 38 %	Complies
Linalyl Acetate:	25 – 45 %	Complies

CERTIFICATE OF ANALYSIS

PRODUCT: LAVENDER ESSENTIAL OIL - POPULATION
PRODUCT NO: 11079

LOT NO: 11079-A09

	Specifications:	Results:
Appearance:	Pale yellow liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.860 – 0.900 @ 20°C	Complies
Optical Rotation:	-18.0 – +8.0 @ 20°C	Complies
Refractive Index:	1.455 – 1.465 @ 20°C	Complies
Linalool:	25 – 38 %	Complies
Linalyl Acetate:	25 – 45 %	Complies

CERTIFICATE OF ANALYSIS

PRODUCT: LAVENDER ESSENTIAL OIL - POPULATION
PRODUCT NO: 11079

LOT NO: 11079-A10

	Specifications:	Results:
Appearance:	Pale yellow liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.860 – 0.900 @ 20°C	Complies
Optical Rotation:	-18.0 – +8.0 @ 20°C	Complies
Refractive Index:	1.455 – 1.465 @ 20°C	Complies
Linalool:	25 – 38 %	Complies
Linalyl Acetate:	25 – 45 %	Complies

CERTIFICATE OF ANALYSIS

PRODUCT: LAVENDER ESSENTIAL OIL - POPULATION
PRODUCT NO: 11079

LOT NO: 11079-A11

	Specifications:	Results:
Appearance:	Pale yellow liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.860 – 0.900 @ 20°C	Complies
Optical Rotation:	-18.0 – +8.0 @ 20°C	Complies
Refractive Index:	1.455 – 1.465 @ 20°C	Complies
Linalool:	25 – 38 %	Complies
Linalyl Acetate:	25 – 45 %	Complies

CERTIFICATE OF ANALYSIS

PRODUCT: LAVENDER ESSENTIAL OIL - POPULATION
PRODUCT NO: 11079

LOT NO: 11079-B11

	Specifications:	Results:
Appearance:	Pale yellow liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.860 – 0.900 @ 20°C	Complies
Optical Rotation:	-18.0 – +8.0 @ 20°C	Complies
Refractive Index:	1.455 – 1.465 @ 20°C	Complies
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