

## MATERIAL SAFETY DATA SHEET

### DOUGLAS FIR PINE ESSENTIAL OIL

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** PSEUDOTSUGA MENZIESII (DOUGLAS FIR) ESSENTIAL OIL

**Commercial Name:** Douglas Fir (Oregon) pine Essential Oil

**CAS#:** 8050-89-3

**EINECS#:** 617-099-7

**Company's Name:** Hierbas Patagónicas SRL

**Address:** Sarmiento street 784, 1<sup>st</sup> floor A. Esquel, Chubut, Argentina

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#### 2. COMPOSITION AND INFORMATION ON INGREDIENTS

**Composition:**

INCI NAME	CAS#	% Weight
PSEUDOTSUGA MENZIESII ESSENTIAL OIL	8050-89-3	100

**Main components:**

INCI NAME	CAS#	EINECS#	%
Beta-pinene	127-91-3	204-872-5	20-30
Sabinene	3387-41-5	222-212-4	9-20
Terpinolene	586-62-9	209-578-0	8-20
Alpha-pinene	80-56-8	201-291-9	9-15
Delta-3-carene	13466-78-9	236-719-3	3-14
Gamma-terpinene	99-85-4	202-794-6	2-4
Citronellyl acetate	150-84-5	205-775-0	1-4

**Production process:** Steam distillation

### 3. HAZARDS IDENTIFICATION

**General Information:** May cause eye and skin irritation. May cause respiratory and digestive tract irritation in case of a prolonged contact.

**Classification according to Regulation (EC) No 1272/2008:**

Not classified.

**Classification according to Directive No 67/548/EEC/ Directive 1999/45/E:**

*Hazards Symbols:* Xi: Irritant.

*Risk Phrases:* R 43 May cause skin sensitization.

*Environment:* When it is spilled, may infect the soil and subterranean water.

### 4. FIRST AID MEASURES

**Inhalation:** Get away from exposure and move to fresh air immediately.

**Skin Contact:** Remove contaminated clothing; wash thoroughly with mild soap and water for at least 15 minutes. Get medical attention if irritation develops.

**Eyes Contact:** Check for and remove any contact lenses. Rinse eyes with plenty of water for at least 15 minutes. Get medical aid if irritation occurs.

**Ingestion:** Rinse mouth with water several times then spit out. Do not induce vomiting. If larger quantities are swallowed, contact a doctor, hospital or poison information centre. For the ingestion of small amounts, drink lots of water.

### 5. FIRE FIGHTING MEASURES

**Suitable extinguishing media:** Carbon dioxide (CO<sub>2</sub>) dry powder, or foam.

**Unsuitable extinguishing media:** Do not use water jet directly on burning material.

**Advice to fire-fighters:**

- Containers close to the fire should be removed or cooled with water.
- Avoid breathing vapour or smoke emitted.
- Use breathing apparatus to protect from fumes.
- Avoid runoff of waters of fire into sewers.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal care:** Avoid inhalation and skin and eyes exposure. The use of masks is recommended in case of large spill.

**Spills/Leaks:** Absorb spill with an inert material (sand or earth), then place in suitable container. Clean up the spill immediately, observing precautions in the Protective Equipment section. Provide ventilation.

**Environment Precautions:** Avoid runoff into storm sewers and ditches which lead to waterways.

## 7. HANDLING AND STORAGE

**Handling:** In accordance with the good practices of hygiene of the industries and with adequate ventilation and the use of individual protection (section 8). Don't drink, eat or smoke during handling.

**Storage:** Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep a minimum contact with the air.

**Protection of fire:** Keep far from ignition areas and flames.

## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

**Respiratory Protection:** Avoid excessive inhalation and keep adequate ventilation. Wear possibly a respiratory mask in case of production of vapors, in particular if the product is warmed. Mask with filter anti-fog / gas type A1 or A2.

**Eyes Protection:** An eyes protection is necessary in case of splash risk, in this case wear appropriate protective eyeglasses or chemical safety goggles.

**Skin Protection:** Wear appropriate protective gloves and lab coat to prevent skin exposure.

**Exposure Limits:** Without reference.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (at 20°C)	: Clear liquid
Color	: Very pale green
Odor	: Strong resinous
pH	: Not available
Viscosity	: Not apply
Freezing Point	: Not available
Boiling Point	: Not available
Melting Point	: Not available
Flash Point	: 38 °C
Vapor Pressure (kPa)	: Not available
Density (20°C Kg/L)	: 0.860-0.870
Solubility in water	: No
Solubility in ethanol	: Yes
Solubility in oil	: Yes
Partition Coefficient	: Not available
Refraction Index (at 20°C)	: 1.470-1.490
Rotational Power (at 20°C)	: -25° to -20°

## 10. STABILITY AND REACTIVITY

**Reactivity:** Doesn't represent significant risks of reactivity, isolated or in contact with water. Avoid contact with strong acid, alkaline substances or oxidant agents.

**Chemical stability:** Stable with normal handling and storage conditions.

**Decomposition:** In case of thermic decomposition, may form carbon monoxide and organic compounds not available.

## 11. TOXICOLOGICAL INFORMATION

Based in available toxicological dates and in accordance with the Directive 92/32/CE, this compound is not classified.

**Cytotoxicity (in vitro):** Not available.

**Phototoxicity (in vitro):** Not available.

**Mutagenesis study (Ames test):** Not available.

**Sensitization (Human Patch Test):** No sensitization reactions (5%w/w in ethanol).

**Toxicity to animals:** Not available.

## 12. ECOLOGICAL INFORMATION

**Aquatic toxicity:** Toxic to aquatic organisms.

**Persistence and degradability:** The subject is completely biodegradable.

**Bioaccumulative:** No further relevant information available.

**Mobility in soil:** No further relevant information available.

**Additional ecological information:** Avoid release into soil and water.

**Other adverse effects:** No further relevant information available.

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal:** Waste must be disposed of in accordance with state and local environmental control regulations.

**Cleaning:** Clean the soiled elements with steam water, with aeration of the place.

## 14. TRANSPORT INFORMATION

Not classified as dangerous product according with the current norms of regulation of transports of chemical product.

## 15. REGULATORY INFORMATION

**Hazards Symbols:** Xi Irritant.

**Risk Phrases:** R43 May cause skin sensitization.

**Safety Phrases:** S24/25 Avoid contact with skin and eyes. S37 Wear suitable gloves.

## 16. ADDITIONAL INFORMATION

Information above is believed to be accurate and represents the best information to us currently available, until the present date.

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