



Plant's Power Inc  
3-2700 St.Clair Ave west  
Toronto, Ontario, M6N 1M2  
Contact: 1-416-766-1254

## MATERIAL SAFETY DATA SHEET

### Fir Balsam

#### Section 1: Product and Company Identification

Product Name: Fir Balsam

Botanical Name: *Abies balsamea*

INCI Name: Abies balsamea (Balsam Canada) Needle Oil

CAS No.: 8024-15-5

Country of Origin: Canada

#### Contact information:

Plant's Power Inc 3-2700 St.Clair Ave west Toronto, Ontario M6N 1M2 Contact: 1-416-766-1254 <a href="http://www.PlantPower.ca">http://www.PlantPower.ca</a> <a href="mailto:contactus@plantpower.ca">contactus@plantpower.ca</a>	24 HOUR EMERGENCY TELEPHONE NUMBER: (647) 427-4480
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#### Section 2: Composition and Information on Ingredients

Composition

Name: Fir Balsam

CAS No.: 8024-15-5

% by Weight: 100

### Section 3: Hazards Identification

WHMIS Classification: B3 – Combustible Liquid

GHS Classification: Flammable Liquids (Category 3)

GHS Label elements, including precautionary statements



Signal: Warning

Hazard statement(s)

H226 Flammable liquid and vapour.

Precautionary statement(s)

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353

IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with plenty of water.

### Section 4: 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.

## Section 5: Fire and Explosive

Flash Point:	155 to 163 Deg. F
Suitable extinguishing media:	Use dry chemical, carbon dioxide, water spray (fog) or foam.
Unsuitable extinguishing media:	Water jet or water-based fire extinguishers.
Special protective equipment and precautions for fire-fighters:	Wear proper protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special hazards arising from the substance or its combustible products:	In the event of thermal decomposition or fire, vapours potentially dangerous to health may be released.
Resulting gases:	Carbon oxides.

## Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:	Wear adequate personal protective equipment.
Environmental precautions:	Avoid dispersal of spilled material and run-off and contact with soil, waterways, drains and sewers.
Methods and materials for containment and cleaning up:	Limit the spreading of the spillage with non-combustible material (sand, earth, etc). Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind.

## Section 7: Handling and Storage

Precautions for safe handling:	Use appropriate personal protective equipment. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Provide adequate ventilation.
Conditions for safe storage, including any incompatibilities:	Store in a well-ventilated place. Keep far away from sources of heat, naked flames and sparks other sources of ignition.

## Section 8: Exposure Controls/Personal Protection Engineering

- Spillage: Absorb spills, cover with an inert, non-combustible, inorganic absorbent material, and remove to an approved disposal container.
- Fire: Recommended extinguishing media – CO<sub>2</sub>, 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.

## Section 9: Physical and Chemical Properties

- Appearance: Colorless to pale yellow clear liquid.
- Odor: Characteristic sweet pine-like christmas odor.
- Solubility: Soluble in alcohol and oils. Insoluble in water.
- Specific Gravity: 0.880 – 0.889 @ 20°C
- Optical Rotation: -19.0 – -24.0 @ 20°C
- Refractive Index: 1.473 – 1.478 @ 20°C

### Composition

- Bornyl Acetate: 4.90 – 16.5
- Pinene: 42.0 – 48.0
- Carene: 10.0 – 27.0
- Limonene: 1.80 – 15.5
- Camphene: 3.0 – 10.0

Extraction Method: Steam distillation of the needles.

## Section 10: Stability and Reactivity

- Reactivity: This material presents no significant reactivity hazard.
- Chemical stability: Chemically stable.
- Possibility of hazardous reactions: Under normal conditions of use and storage, hazardous reactions will not occur.
- Conditions to avoid: Avoid heat and all possible sources of ignition (spark or flame).
- Incompatible materials: Strong oxidizing agents.
- Hazardous decomposition products: Carbon Oxides.

## Section 11: Toxicological Information

Acute toxicity:	LD50 Oral - Rat - > 5,000 mg/kg LD50 Dermal - Rabbit - > 5,000 mg/kg
Inhalation:	May slightly irritate the respiratory tract. May be harmful if inhaled.
Skin contact:	May irritate skin. May be harmful if absorbed through skin.
Eye contact:	May irritate eyes.
Ingestion:	May be harmful if swallowed.

## Section 12: Ecological Information

Ecotoxicity: Avoid any pollution of ground, surface or underground water.

## Section 13: Disposal Considerations

Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations. Dispose of product in accordance with local, state or provincial and federal regulations. Check with local municipal authority to ensure compliance.

## Section 14: Transport Information

UN Number:	1169
UN proper shipping name:	Extracts, aromatic, liquid
Transport hazard class:	3
Packing group:	III
US DOT Shipping Description (Land):	1169
Proper shipping name:	Extracts, aromatic, liquid
Class:	3
Packaging group:	III
IMO-IMDG Shipping Description (Sea):	1169
Proper shipping name:	Extracts, aromatic, liquid
Class:	3
Packaging group:	III
IATA Shipping Description (Air):	1169
Proper shipping name:	Extracts, aromatic, liquid
Class:	3
Packaging group:	III

## Section 15: Other Regulatory Information

WHMIS Classification: B3 - Combustible Liquid

## **Section 16: Other Information**

### **Disclaimer:**

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