Snow Lotus
47 Foley St Santa Rosa, CA 95403
(800)682-8827 info@snowlotus.org

SAFETY DATA SHEET
Spruce, Hemlock Oil

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier

Product Name:	Spruce Oil
Biological Definition:	Picea Abies Leaf Oil is the volatile oil expressed from the needles of the Norway Spruce, *Picea abies (L.), Pinazeae*
INCI Name:	Picea Abies Leaf Oil
Synonyms & Trade Names:	Abies Oil

CAS No: 91770-69-3 EC No: 294-855-9 EINECS No: 294-855-9

1.2 Relative identified uses of the substance or mixture and uses advised against

No additional data available.

1.3 Details of the supplier of the Safety Data Sheet

Company Name:	Snow Lotus
Address:	47 Foley Street Santa Rosa, CA 95401
Phone Number:	800-682-8827
Email:	info@snowlotus.org

1.4 Emergency Phone Number

CHEMTREC: 800-424-9300

SECTION 2: Hazard Identification

2.1 Classification of the substance or mixture

The Full Text for all Hazard Statements are Displayed in Section 16.

Classification (EC 1272/2008)

Flam. Liq. 3 (H226)
Asp. Tox. 1 (H304)
Eye Irrit. 2 (H319)
Skin Sens. 1 (H317)
Aqu. Chron. 1 (H410)

2.2 Label Elements

Label in accordance with (EC) No 1272/2008


GHS08


GHS09


GHS07


GHS02

Signal Word: Danger
Contains: Delta-3-Carene, alpha-Pinene, beta-Pinene, Limonene, Camohene

Hazard Statements

H226	Flammable liquid and vapor.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Statements

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P305+351	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P280	Wear protective gloves/protective clothing and eye/face protection
P301+330+331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P310	Immediately call a POISON CENTER or doctor/physician.
P273	Avoid release to the environment.
P501	Dispose of contents/containers to regional, national regulation.

Supplementary Precautionary Statements
None

2.3 Other Hazards

PBT or vPvB according to Annex XIII:	No additional data available
Adverse physico-chemical properties:	No additional data available
Adverse effects on human health:	No additional data available

SECTION 3: Composition/information on ingredients

Mixtures

15-30% Limonene CAS No: 5989-27-5, EC No: 227-813-5 Classification (EC 1272/2008) Flam. Liq. 3 – H226, Skin Irrit. 2 – H315, Asp. Tox. 1 – H304, Skin Sens. 1 – H317 Aquatic Acute 1 – H400, Aquatic Chronic 1 – H410
15-25% Camphene CAS No: 79-92-5, EC No: 201-264-8 Classification (EC 1272/2008) Flam. Sol. 1 – H228, Eye Irrit. 2 – H319, Aquatic Acute 1 – H400
10-20% alpha-Pinene CAS No: 80-56-8, EC No: 201-291-9 Classification (EC 1272/2008) Flam. Liq. 3 – H226, Skin Irrit. 2 – H315, Skin Sens. 1 – H317, Asp. Tox. 1 – H304
2-5% beta-Pinene CAS No: 127-91-3, EC No: 204-872-5 Classification (EC 1272/2008) Danger, Flam. Liq. 3 – H226, Skin Sens. 1 – H317, Asp. Tox. 1 – H304, Aquatic Chronic 1 – H410
1-5% delta-3-Carene CAS No: 13466-78-9, EC No: 236-719-3 Classification (EC 1272/2008) Danger, Flam. Liq. 3 – H226, Asp. Tox. 1 – H304, Aquatic Chronic 2 – H411, Skin Sens. 1 – H317

SECTION 4: First Aid Measures

4.1 Description of First Aid Measures

Inhalation:	Do not leave affected person unintended. Remove victim out of the danger area. Provide fresh air.
Ingestion:	If swallowed, rinse mouth. Do NOT induce vomiting.
Skin Contact:	After contact with skin, wash immediately with plenty of water and soap. Remove contaminated clothing immediately.
Eye Contact:	In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

4.2 Most Important symptoms and effect, both acute and delayed
Observe risk of aspiration if vomiting occurs.

4.3 Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

SECTION 5: Fire Fighting Measures

5.1 Extinguishing Media
Foam
Extinguishing powder
Carbon dioxide (CO_2)
Avoid full water jet

5.2 Special hazard arising from the product
B (Fires of liquid turning substances)
In case of fire toxic fumes like carbon monoxide and carbon dioxide may be liberated.
Burning produces heavy smoke.

5.3 Advice for firefighters
Move undamaged containers from immediate hazard area if it can be done safely.
Use suitable breathing apparatus.
Regard to self-protection.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear personal protection equipment.
Avoid contact with skin, eye and clothing.
Remove all sources of ignition.
Provide adequate ventilation.
Give a warning to persons in the hazard area.

6.2 Environmental Precautions
Do not allow to enter in surface water or drains.
Cover drains,
Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3 Methods and material for containment and cleaning up
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid – or universal binding agents).

6.4 Reference to Other Sections
See protective measures under Section 7 and 8.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling
Provide earthing of containers, equipment, pumps and ventilation facilities.
Take precautionary measures against static discharges.
Wear personal protective clothing (see Section 8).
Do not breathe gas/fume/vapor/spray.
Use only in well-ventilated areas.
When using do not eat, drink, smoke, sniff.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed.

7.3 Specific end use(s)
No additional data available.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

No additional data available.

8.2 Exposure Controls

Protective Equipment:

Process Conditions:	Technical measures and the application of suitable work processes have priority over personal protection equipment.
Engineering Measures:	No additional data available.
Respiratory Equipment:	If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.
Hand Protection:	Use solvent and acid resistant protection gloves according to EN 374. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quality of hazardous substances. Take recovery periods for skin regeneration.
Eye Protection:	Use protection goggles according to EN166.
Other Protection:	Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene Measures:	Good personal hygiene practices area always advisable, especially when working with chemicals/oils.
Personal Protection:	Use personal protection according to Directive 89/686/EEC.
Skin Protection:	Protective work clothing solvent resistant (should be checked regularly).
Environmental Exposure Controls:	Avoid discharging into drainage water. Only remove via authorized companies.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance:	Liquid
Color:	Colorless to slightly yellow
Odor:	Characteristic
Relative Density:	0.875-0.898 @ 20°C
Flashpoint (°C):	42°C
Refractive Index:	1.460-1480 @ 20°C
Melting Point (°C):	No additional data available
Boiling Point (°C):	No additional data available
Vapor Pressure:	No additional data available
Solubility in Water @ 20°C:	Insoluble in water
Auto-Ignition Temperature (°C):	No additional data available

9.2 Other Information

No additional data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known.

10.2 Chemical Stability

Product is stable at room temperature.

10.3 Possible Hazardous Reactions
No dangerous reactions expected if used according to specifications.

10.4 Conditions to Avoid
Temperatures more than room temperature will benefit the transfer from liquid to vapor phase and formation of explosive atmospheres.
Storing the product in open containers will benefit the formation of peroxides and derogate the quality.

10.5 Incompatible Materials
No additional data available.

10.6 Hazardous Decomposition Products
No dangerous decomposition products known.

SECTION 11: Toxicological Information

11.1 Information on Toxicological Effects

Acute Toxicity:	Acute toxicity LD50 (oral) in mg/kg: >5000 LD50 (dermal) in mg/kg: >5000
Skin Corrosion/Irritation:	No additional data available
Serious Eye Damage/Irritation:	No additional data available
Respiratory or Skin Sensitization:	No additional data available
Germ Cell Mutagenicity:	No additional data available
Carcinogenicity:	No additional data available
Reproductive Toxicity:	No additional data available
STOT-Single Exposure:	No additional data available
STOT-Repeated Exposure:	No additional data available
Aspiration Hazard:	No additional data available
Photo-Toxicity:	No additional data available
Other Information:	No additional data available

SECTION 12: Ecological Information

12.1 Toxicity
No additional data available

12.2 Persistence and Degradability
No additional data available

12.3 Bio-accumulation Potential
No additional data available

12.4 Mobility in Soil
No additional data available

12.5 Results of PBT and vPvB Assessment
No additional data available

12.6 Other Adverse Effects
No additional data available

SECTION 13: Disposal Consideration

13.1 Waste Treatment Methods
Hazardous waste according to waste regulation.
Dispose according to legislation.
Delivery to an approved waste disposal company.
Non-contaminated packages may be recycled.

SECTION 14: Transport Information

14.1 UN Number

UN No Road: 1272
UN No Sea: 1272
UN No Air: 1272

14.2 UN Proper Shipping Name

Pine Oil

14.3 Transport Hazard Class(es)

ADR/RID/ADN Class: 3
ADR/RID/ADN Class: 3
IMDG Class: 3
ICAO Class/Division

Transport Labels

EAC – 3Y
HIN – 30

14.4 Packing Group

ADR/RID/ADN Packing Group: III
IMDG Packing Group: III
ICAO Packing Group: III

14.5 Environmental Hazards

Environmentally Hazardous Substance/Marine Pollutant

14.6 Special Precautions for User

See Section 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Packed and transferred according to transport regulations.

SECTION 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Statutory Instruments
The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I. 2009 No. 716).

Guidance Notes
Workplace Exposure Limits EH40. CHIP for everyone HSG (108).

EU Legislation
Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 118 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulations (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directive 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

15.2 Chemical Safety Assessment

No additional information available.

SECTION 16: Other Information

Hazard and/or Precautionary Statements in Full

H226 Flammable liquid or vapor
H228 Flammable Solid
H304 May be fatal if swallowed and enters airways
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation
H410 Very toxic to aquatic life with long lasting effects
H411 Toxic to aquatic life with long lasting effects

Other Information: None