

## **Safety Data Sheet**

## 01. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & THE COMPANY/UNDERTAKING

#### 1.1 **Product Identifier**

	i i oddot i deirtii	C.				
Product Name		Spruce O	Spruce Oil			
Biological Definition		Picea Abi	Picea Abies Leaf Oil is the volatile oil expressed from the needles of the			
		Norway S	Norway Spruce, Picea abies (L.), Pinaceae			
INCI	INCI Name		Picea Abi	Picea Abies Leaf Oil		
Sync	onyms & Trade Nam	ies	Abies Oil	Abies Oil		
CAS-	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					
	Golden Bough Botanicals Inc 12-1585 Cliveden Ave Delta BC V3M 6M1					
1.4	<b>Emergency Tel. No.</b> 604-540-8700 (Monday-Friday 8:30 am-4:30 pm)		m)			

#### **02. HAZARDS IDENTIFICATION**

2.1	2.1 Classification of the substance or mixture		
	The Full Text for all Hazard Statements are Displayed in Section 16.		
Class	sification (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 Ele	ments	
Labe	el in accordan	ce with (EC) No 1272/	2008
	GHS08	GHS09 GHS07	GHS02
Sign	al Word		Danger
Cont	tains		Delta-3-Carene, alpha-Pinene, beta-Pinene, Limonene, Camphene.
Haza	ard Statemen	ts	
	H226 Flammable liquid and vapour.		
	11204		lawad and anters airways

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

**Precautionary Statements** 

P305+P351IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present<br/>and easy to do. Continue rinsing.P280Wear protective gloves/protective clothing and eye/face protection.P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.P310Immediately call a POISON CENTER or doctor/physician.P273Avoid release to the environment.P501Dispose of contents/container to regional, national regulation.Supplementary Precautionary StatementsNone

#### 2.3 Other Hazards

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

#### 03. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 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 201-234-8

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

#### 04. FIRST AID MEASURES

4.1 Description of first aid measures		
InhalationDo not leave affected person unattended, 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 effects, 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
)5. F	IRE-FIGHTING MEASURES
5.1	Extinguishing Media
	Foam
	Extinguishing powder
	Carbon dioxide (CO2)
	Avoid full water jet
5.2	Special hazards arising from the product
	B (Fires of liquids or 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
6. A	CCIDENTAL RELEASE MEASURES
6.1	Personal precautions, protective equipment and emergency procedures
6.1	Personal precautions, protective equipment and emergency procedures     Wear personal protection equipment.
6.1	
6.1	Wear personal protection equipment.   Avoid contact with skin, eye and clothing.   Remove all sources of ignition.
6.1	Wear personal protection equipment.   Avoid contact with skin, eye and clothing.   Remove all sources of ignition.   Provide adequate ventilation.
	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
6.1 6.2	Wear personal protection equipment.   Avoid contact with skin, eye and clothing.   Remove all sources of ignition.   Provide adequate ventilation.
	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

# 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 point 7 and 8.

## 07. HANDLING AND STORAGE

Cover drains.

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 chapter 8).	
	Do not breathe gas/fume/vapour/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.

#### **08. 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 quantity 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 are 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 authorised companies.		

#### 09. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties		
Appearance	liquid	
Colour	Colourless to slightly yellow	
Odour	Characteristic	
Relative Density	0.875- 0.898 @ 20°C	
Flash Point (°C)	42°C	
Refractive Index	1.460 - 1.480 @ 20°C	
Melting Point (°C)	No additional data available.	
Boiling Point (°C)	No additional data available.	
Vapour Pressure	No additional data available.	
Solubility in Water @20°C	Insoluble in water.	
Auto-ignition	No additional data available.	
temperature (°C)		
9.2 Other information		
No additional data available.		

#### **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 vapour 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.
	No additional data available. Hazardous Decomposition Products

#### **11. TOXOLOGICAL 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 sensitisation	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

## **12. ECOLOGICAL INFORMATION**

12.1	Toxicity
	No additional data available
12.2	Persistence & degradability
	No additional data available
12.3	Bioaccumulation 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.

#### **13. DISPOSAL CONSIDERATIONS**

#### 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.

#### **14. TRANSPORT INFORMATION**

14. I K	ANSPORT INFORMATION	
14.1	UN number	
	UN No. Road	1272
	UN No. SEA	1272
	UN No. AIR	1272
14.2	UN proper shipping nai	me
	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	
	•	
	FLAMMABLE	
	3	
	•	
	EAC – 3Y	
	HIN – 30	
14.4		
	ADR/RID/ADN Packing grou	
	IMDG Packing group	111
	ICAO Packing group	III
14.5	Environmental hazards	
	Environmentally Hazardo	ous Substance/Marine Pollutant
	$\sim$	
14.6	Special precautions for	user

See section 6 to 8.

#### 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code

Packed and transferred according to transport regulations.

#### **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 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

#### 15.2 Chemical safety assessment

No additional information available.

16. OTHER INFORMATION		
Hazard and/or Precautionary	H226	Flammable liquid and vapour.
Statements in Full	H228	Flammable Soild
	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	
Revision Date	July 8, 2015	
Reason for revision	New SDS	
Rev No/Repl, SDS Generated	01	

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