



Version: 5 (10/07/2024)

## **SAFETY DATA SHEET**

In accordance with REACH Regulation EC No.1907/2006

**Product:** Pine needle oil FPD-2016A-LM8166

Version: 5

Section 1. Identification of the substance or the mixture and of the supplier

1.1 Product Identifier

**Product identifier:** Pine needle oil; CAS: 84012-35-1

Other identifiers: Abies needle oil

1.2 Relevant identified uses of the substance of mixture and uses advised against

Product uses: Fragrances

1.3 Details of the supplier of the safety data sheet

Company name: Norfolk Essential Oils

Company address: Pates Farm

Wisbech Road

Tipsend Welney Wisbech PE14 9SQ

Contact: Regulatory Affairs

E-Mail address: info@neoils.com

Company phone: 01354 638065

1.4 Emergency telephone number

**Emergency phone:** 01354 638065

### Section 2. Hazards identification

#### 2.1 Classification of the substance or mixture

Classification under Regulation (EC) No 1272/2008

Class and category of Flammable Liquid, Hazard Category 3 danger: Skin Corrosion / Irritation Category 2

Sensitization - Skin Category 1

Aspiration Hazard Category 1

Hazardous to the Aquatic Environment - Acute Hazard Category 1
Hazardous to the Aquatic Environment - Long-term Hazard Category 1

H226, Flammable liquid and vapour.

H304, May be fatal if swallowed and enters airways.

H315, Causes skin irritation.

H317, May cause an allergic skin reaction.

H410, Very toxic to aquatic life with long lasting effects.





Version: 5 (10/07/2024)

## **SAFETY DATA SHEET**

In accordance with REACH Regulation EC No.1907/2006

**Product:** Pine needle oil FPD-2016A-LM8166

Version: 5

2.2 Label elements

Classification under Regulation (EC) No 1272/2008

Signal word: Danger

**Hazard statements:** H226, Flammable liquid and vapour.

H304, May be fatal if swallowed and enters airways.

H315, Causes skin irritation.

H317, May cause an allergic skin reaction.

H410, Very toxic to aquatic life with long lasting effects.

M factor: None

**Supplemental** Information:

None

**Precautionary** statements:

P210, Keep away from heat, sparks, open flames and hot surfaces. - No smoking.

P233, Keep container tightly closed.

P240, Ground/bond container and receiving equipment.

P241, Use explosion-proof electrical, ventilating and lighting equipment.

P242, Use only non-sparking tools.

P243, Take precautionary measures against static discharge.

P261, Avoid breathing vapour or dust.

P264, Wash hands and other contacted skin thoroughly after handling.

P272, Contaminated work clothing should not be allowed out of the workplace.

P273, Avoid release to the environment.

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

P301/310, IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P303/361/353, IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing.

Rinse skin with water/shower. P331, Do not induce vomiting.

P333/313, If skin irritation or rash occurs: Get medical advice/attention.

P362. Take off contaminated clothing and wash before reuse.

P370/378, In case of fire: Use carbon dioxide, dry chemical, foam for extinction.

P391, Collect spillage.

P403/235, Store in a well-ventilated place. Keep cool.

P405, Store locked up.

P501, Dispose of contents/container to approved disposal site, in accordance with local

regulations.





Version: 5 (10/07/2024)

# **SAFETY DATA SHEET**

In accordance with REACH Regulation EC No.1907/2006

**Product:** Pine needle oil FPD-2016A-LM8166

Version: 5

Pictograms:









# 2.3 Other hazards

Other hazards: **Hydrocarbon Concentration %:** 96.0000%

Section 3. Composition / information on ingredients

3.1 Substances

**Product identifier:** Pine needle oil; CAS: 84012-35-1

**Contains:** 

Name	CAS	EC	REACH Registration No.	%	Classification for (CLP) 1272/2008	Specific Conc. Limits, M-factors and ATEs
I-Limonene	5989-54-8	227-815-6		20-<50%	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1-Aquatic Acute 1- Aquatic Chronic 1; H226-H304-H315- H317-H410,-	M = 1
alpha-Pinene	80-56-8	201-291-9		20-<50%	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1-Aquatic Acute 1- Aquatic Chronic 1; H226-H304-H315- H317-H410,-	M = 1-M = 1-oral: ATE = 3500 mg/kg bw
Camphene	79-92-5	201-234-8	V	20-<50%	Flam. Sol. 2-Aquatic Acute 1-Aquatic Chronic 1;H228-H410,-	M = 1-M = 1
beta-Pinene	127-91-3	204-872-5		5-<10%	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1-Aquatic Acute 1- Aquatic Chronic 1; H226-H304-H315- H317-H410,-	M = 1-M = 1
Terpinolene	586-62-9	209-578-0	nti	1-<5%	Skin Sens. 1B-Asp. Tox 1-Aquatic Acute 1- Aquatic Chronic 1; H304-H317-H410,-	M = 1-oral: ATE = 3850 mg/kg bw
p-Cymene	99-87-6	202-796-7		1-<5%	Flam. Liq. 3-Asp. Tox 1-Aquatic Chronic 2; H226-H304-H411,-	oral: ATE = 4750 mg/kg bw
alpha-Terpineol	98-55-5	202-680-6		1-<5%	Skin Irrit. 2-Eye Irrit. 2; H315-H319,-	oral: ATE = 4300 mg/kg bw
beta-Caryophyllene	87-44-5	201-746-1		1-<5%	Skin Sens. 1B-Asp. Tox 1;H304-H317,-	
Myrcene	123-35-3	204-622-5		1-<5%	Flam. Liq. 3-Skin Irrit. 2-Eye Irrit. 2-Asp. Tox 1;H226-H304-H315- H319,-	





Version: 5 (10/07/2024)

## **SAFETY DATA SHEET**

In accordance with REACH Regulation EC No.1907/2006

**Product:** Pine needle oil FPD-2016A-LM8166

Version: 5

#### Section 4. First-aid measures

#### 4.1 Description of first aid measures

**Inhalation:** Remove from exposure site to fresh air, keep at rest, and obtain medical attention.

Eye exposure: Flush immediately with water for at least 15 minutes. Contact physician if symptoms persist.

Skin exposure: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with

water/shower.

**Ingestion:** IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

### 4.2 Most important symptoms and effects, both acute and delayed

May be fatal if swallowed and enters airways.

Causes skin irritation.

May cause an allergic skin reaction.

#### 4.3 Indication of any immediate medical attention and special treatment needed

None expected, see Section 4.1 for further information.

# Section 5: Firefighting measures

### 5.1 Extinguishing media

Suitable media: Carbon dioxide, Dry chemical, Foam.

### 5.2 Special hazards arising from the substance or mixture

In case of fire, may be liberated: Carbon monoxide, Unidentified organic compounds.

## 5.3 Advice for fire fighters:

In case of insufficient ventilation, wear suitable respiratory equipment.

#### Section 6. Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures:

Avoid inhalation. Avoid contact with skin and eyes. See protective measures under Section 7 and 8.

### 6.2 Environmental precautions:

Keep away from drains, surface and ground water, and soil.

### 6.3 Methods and material for containment and cleaning up:

Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Contain spillage immediately by use of sand or inert powder. Dispose of according to local regulations.





Version: 5 (10/07/2024)

## **SAFETY DATA SHEET**

In accordance with REACH Regulation EC No.1907/2006

**Product:** Pine needle oil FPD-2016A-LM8166

Version: 5

#### 6.4 Reference to other sections:

Also refer to sections 8 and 13.

### Section 7. Handling and storage

## 7.1 Precautions for safe handling:

Keep away from heat, sparks, open flames and hot surfaces. - No smoking.

#### 7.2 Conditions for safe storage, including any incompatibilities:

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

### 7.3 Specific end use(s):

Fragrances: Use in accordance with good manufacturing and industrial hygiene practices.

### Section 8. Exposure controls/personal protection

## 8.1 Control parameters

Workplace exposure limits: Not Applicable

### **8.2 Exposure Controls**

#### **Eye / Skin Protection**

Wear protective gloves/eye protection/face protection

#### **Respiratory Protection**

Under normal conditions of use and where adequate ventilation is available to prevent build up of excessive vapour, this material should not require special engineering controls. However, in conditions of high or prolonged use, or high temperature or other conditions which increase exposure, the following engineering controls can be used to minimise exposure to personnel: a) Increase ventilation of the area with local exhaust ventilation. b) Personnel can use an approved, appropriately fitted respirator with organic vapour cartridge or canisters and particulate filters. c) Use closed systems for transferring and processing this material.

Also refer to Sections 2 and 7.

#### Section 9. Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

Physical State/Colour:

Odour:

Not determined





Version: 5 (10/07/2024)

## **SAFETY DATA SHEET**

In accordance with REACH Regulation EC No.1907/2006

**Product:** Pine needle oil FPD-2016A-LM8166

Version: 5

Flammability: Not determined

Lower and upper explosion limit: Not determined

Flash point: 44 °C

Auto-ignition temperature:

Decomposition temperature:

Not relevant

Not determined

value):

Vapour pressure:Not determinedDensity and/or relative density:Not determinedRelative vapour density:Not determinedParticle characteristics:Not determined

9.2 Other information: None available

#### Section 10. Stability and reactivity

### 10.1 Reactivity:

Presents no significant reactivity hazard, by itself or in contact with water.

#### 10.2 Chemical stability:

Good stability under normal storage conditions.

#### 10.3 Possibility of hazardous reactions:

Not expected under normal conditions of use.

#### 10.4 Conditions to avoid:

Avoid extreme heat.

#### 10.5 Incompatible materials:

Avoid contact with strong acids, alkalis or oxidising agents.

### 10.6 Hazardous decomposition products:

Not expected.

# Section 11. Toxicological information

# 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute Toxicity: Based on available data the classification criteria are not met.

Acute Toxicity Oral >5000

Acute Toxicity Dermal Not Applicable
Acute Toxicity Inhalation Not Available

**Skin corrosion/irritation:** Skin Corrosion / Irritation Category 2





Version: 5 (10/07/2024)

## **SAFETY DATA SHEET**

In accordance with REACH Regulation EC No.1907/2006

**Product:** Pine needle oil FPD-2016A-LM8166

Version: 5

**Serious eye damage/irritation:**Based on available data the classification criteria are not met.

Respiratory or skin sensitisation: Sensitization - Skin Category 1

Germ cell mutagenicity:

Based on available data the classification criteria are not met.

Based on available data the classification criteria are not met.

Based on available data the classification criteria are not met.

Based on available data the classification criteria are not met.

Based on available data the classification criteria are not met.

Based on available data the classification criteria are not met.

Based on available data the classification criteria are not met.

Aspiration hazard: Aspiration Hazard Category 1

#### Information about hazardous ingredients in the mixture

Not Applicable

Refer to Sections 2 and 3 for additional information.

#### 11.2 Information on other hazards

Not Applicable

## Section 12. Ecological information

#### 12.1 Toxicity:

Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability:Not available12.3 Bioaccumulative potential:Not available12.4 Mobility in soil:Not available

12.5 Results of PBT and vPvB assessment:

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

**12.6 Endocrine disrupting properties:** Not Applicable **12.7 Other adverse effects:** Not available

# Section 13. Disposal considerations

#### 13.1 Waste treatment methods:

Dispose of in accordance with local regulations. Avoid disposing into drainage systems and into the environment. Empty containers should be taken to an approved waste handling site for recycling or disposal.

#### **Section 14. Transport information**

	14.1 UN number:	14.2 UN Proper Shipping Name:	14.3 Transport hazard class (es):		14.4 Packing Group:
UN Model	UN1993	FLAMMABLE LIQUID, N.O.S. (I-	3	-	III
Regulations		Limonene, alpha-Pinene)			



Norfolk Essential Oils

Issue date: 10/07/2024

Version: 5 (10/07/2024)

## **SAFETY DATA SHEET**

In accordance with REACH Regulation EC No.1907/2006

**Product:** Pine needle oil FPD-2016A-LM8166

Version: 5

IMDG	UN1993	FLAMMABLE LIQUID, N.O.S. (I- Limonene, alpha-Pinene, Camphene) MARINE POLLUTANT	3	-	III
ADR,RID,ADN	UN1993	F <mark>LAMMABLE L</mark> IQUID, N.O.S. (I- Limonene, alpha-Pinene)	3	-	III
ICAO TI	UN1993	FLAMMABLE LIQUID, N.O.S. (I- Limonene, alpha-Pinene)	3	-	III

14.5 Environmental hazards: This is classified as an environmentally hazardous substance under the UN

Model Regulations. This is classified as a Marine Pollutant under the IMDG

Code.

14.6 Special precautions for user: None additional

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

Not applicable

### Section 15. Regulatory information

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

Water Hazard Class (WGK): 3

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this product.

Section 16. Other information

**Concentration % Limits:** SCI 2=15.38% SS 1=3.03% AH 1=10.42% EH A1=29.73% EH C1=29.73%

EH C2=2.97% EH C3=0.29691211% EH C4=29.38%

**Total Fractional Values:** SCI 2=6.50 SS 1=33.00 AH 1=9.60 EH A1=3.36 EH C1=3.36 EH C2=33.

68 EH C3=336.80 EH C4=3.40

Key to revisions:

SECTION 3: Composition/information on ingredients

# Key to abbreviations:

Abbreviation	Meaning		
Aquatic Acute 1	Hazardous to the Aquatic Environment - Acute Hazard Category 1		
Aquatic Chronic 1	Hazardous to the Aquatic Environment - Long-term Hazard Category 1		
Aquatic Chronic 2	Hazardous to the Aquatic Environment - Long-term Hazard Category 2		
Asp. Tox 1	Aspiration Hazard Category 1		
Eye Irrit. 2	Eye Damage / Irritation Category 2		
Flam. Liq. 3	Flammable Liquid, Hazard Category 3		
Flam. Sol. 2	Flammable Solid, Hazard Category 2		
H226	Flammable liquid and vapour.		
H228	Flammable solid.		
H304	May be fatal if swallowed and enters airways.		
H315	Causes skin irritation.		



Version: 5 (10/07/2024)

# **SAFETY DATA SHEET**

In accordance with REACH Regulation EC No.1907/2006

**Product:** Pine needle oil FPD-2016A-LM8166

Version: 5

H317	May c <mark>ause an</mark> allergic skin reaction.		
H319	Cau <mark>ses serious</mark> eye irritation.		
H410	Very toxic to aquatic life with long lasting effects.		
H411	Toxic to aquatic life with long lasting effects.		
P210	Keep away from heat, sparks, open flames and hot surfaces No smoking.		
P233	Keep container tightly closed.		
P240	Ground/bond container and receiving equipment.		
P241	Use explosion-proof electrical, ventilating and lighting equipment.		
P242	Use only non-sparking tools.		
P243	Take precautionary measures against static discharge.		
P261	Avoid breathing vapour or dust.		
P264	Wash hands and other contacted skin thoroughly after handling.		
P272	Contaminated work clothing should not be allowed out of the workplace.		
P273	Avoid release to the environment.		
P280	Wear protective gloves/eye protection/face protection.		
P301/310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.		
P302/352	IF ON SKIN: Wash with plenty of soap and water.		
P303/361/353	IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.		
P305/351/338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
P331	Do not induce vomiting.		
P332/313	If skin irritation occurs: Get medical advice/attention.		
P333/313	If skin irritation or rash occurs: Get medical advice/attention.		
P337/313	If eye irritation persists: Get medical advice/attention.		
P362	Take off contaminated clothing and wash before reuse.		
P363	Wash contaminated clothing before reuse.		
P370/378	In case of fire: Use carbon dioxide, dry chemical, foam for extinction.		
P391	Collect spillage.		
P403/235	Store in a well-ventilated place. Keep cool.		
P405	Store locked up.		
P501	Dispose of contents/container to approved disposal site, in accordance with local regulations.		
Skin Irrit. 2	Skin Corrosion / Irritation Category 2		
Skin Sens. 1B	Sensitization - Skin Category 1B		

The information in this safety data sheet is to the best of our knowledge true and accurate but all data, instructions, recommendations and/or suggestions are made without guarantee.