

Certificate of Analysis

PRODUCT DETAILS		
Product Name	PINE OIL SYLVESTRIS	
Product Code	OEPINESYLV	
Batch Number	4362614	
Best Before End	June 2022	
Identification	CAS No: 84012-35-1	EINECS No: 281-679-2
	Alternative CAS: 8023-99-2	
PHYSICAL AND CHEMICAL CHARACTERISTIC		
	SPECIFICATION RANGE	RESULTS
Appearance	Liquid	Conforms
Colour	Colourless to Pale Yellow	Conforms
Odour	Characteristic	Conforms
Relative Density @ 20°C	0.855 - 0.875	0.8612
Refractive Index @ 20°C	1.465 - 1.480	1.4709
Optical Rotation °	-30 to +10	-24.7
	≥37	
STORAGE AND SHELF LIFE		
Storage	Store in tightly closed container with minimum headspace in a cool, dark and dry place.	

DISCLAIMER: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the Company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the users responsibility to satisfy himself as to the suitability of such information for his own particular use. Where MADAR make a declaration that allergenic material are not present in any product, this statement is made assuming reasonable levels of detection. It is impossible to guarantee the "absolute absence" of any material. It is the ultimate responsibility of the customer to ensure the safety of the intended final product containing this material, by carrying out additional tests if necessary.



SAFETY DATA SHEET PINE OIL SYLVESTRIS AUSTRIAN

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

1.1. Product identifier

Product name	PINE OIL SYLVESTRIS AUSTRIAN
Product number	OEPINESYLV
Synonyms; trade names	Pinus Sylvestris L.
CAS number	84012-35-1
Alternative Cas Number	8023-99-2
EC number	281-679-2

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

Identified uses	Industrial, only for professional use
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1.3. Details of the supplier of the safety data sheet

Supplier	MADAR Corporation Limited 19-20 Sandehealth Industrial Estate Fordingbridge Hampshire SP6 1PA Tel. +44 1425 655555 (Opening Hours 9am - 5pm) e-mail sales@madarcorporation.co.uk
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1.4. Emergency telephone number

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards	Flam. Liq. 3 - H226
Health hazards	Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Asp. Tox. 1 - H304
Environmental hazards	Aquatic Chronic 2 - H411
Human health	May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction.
Environmental	Toxic to aquatic life with long lasting effects.
Physicochemical	Flammable liquid and vapour

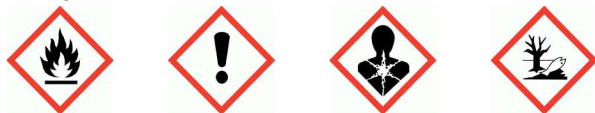
2.2. Label elements

EC number	281-679-2
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PINE OIL SYLVESTRIS AUSTRIAN



Pictogram



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.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P261 Avoid breathing vapour/ spray.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
 P331 Do NOT induce vomiting.
 P501 Dispose of contents/ container in accordance with national regulations.

Contains

Alpha Pinene, Beta Pinene, (S)-p-mentha-1,8-diene, Delta-3-Carene, 7-methyl-3-methyleneocta-1,6-diene, a terpinolene

Supplementary precautionary statements

P233 Keep container tightly closed.
 P240 Ground/ bond container and receiving equipment.
 P241 Use explosion-proof electrical equipment.
 P242 Use only non-sparking tools.
 P243 Take precautionary measures against static discharge.
 P264 Wash contaminated skin thoroughly after handling.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
 P321 Specific treatment (see medical advice on this label).
 P332+P313 If skin irritation occurs: Get medical advice/ attention.
 P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
 P391 Collect spillage.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P405 Store locked up.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

PINE OIL SYLVESTRIS AUSTRIAN

**Alpha Pinene****30-60%**

CAS number: 80-56-8

EC number: 201-291-9

M factor (Acute) = 1

M factor (Chronic) = 1

Classification

Flam. Liq. 3 - H226

Acute Tox. 4 - H302

Skin Irrit. 2 - H315

Skin Sens. 1 - H317

Asp. Tox. 1 - H304

Aquatic Acute 1 - H400

Aquatic Chronic 1 - H410

Beta Pinene**3 - 25%**

CAS number: 127-91-3

EC number: 242-060-2

M factor (Acute) = 1

M factor (Chronic) = 1

Classification

Flam. Liq. 3 - H226

Skin Irrit. 2 - H315

Skin Sens. 1 - H317

Asp. Tox. 1 - H304

Aquatic Acute 1 - H400

Aquatic Chronic 1 - H410

Delta-3-Carene**2 - 20%**

CAS number: 13466-78-9

EC number: 236-719-3

M factor (Acute) = 1

M factor (Chronic) = 1

Classification

Flam. Liq. 3 - H226

Skin Irrit. 2 - H315

Skin Sens. 1 - H317

Asp. Tox. 1 - H304

Aquatic Acute 1 - H400

Aquatic Chronic 1 - H410

(S)-p-mentha-1,8-diene**4 - 15%**

CAS number: 5989-54-8

EC number: 227-815-6

M factor (Acute) = 1

M factor (Chronic) = 1

Classification

Flam. Liq. 3 - H226

Skin Irrit. 2 - H315

Skin Sens. 1 - H317

Asp. Tox. 1 - H304

Aquatic Acute 1 - H400

Aquatic Chronic 1 - H410

PINE OIL SYLVESTRIS AUSTRIAN

Camphene	0.4 - 7.5%
CAS number: 79-92-5	EC number: 201-234-8
M factor (Chronic) = 1	
Classification	
Flam. Sol. 1 - H228	
Eye Irrit. 2 - H319	
Aquatic Chronic 1 - H410	
7-methyl-3-methylenoocta-1,6-diene	1.5 - 10%
CAS number: 123-35-3	EC number: 204-622-5
M factor (Acute) = 1	M factor (Chronic) = 1
Classification	
Flam. Liq. 3 - H226	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
Skin Sens. 1 - H317	
Asp. Tox. 1 - H304	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	
a terpinolene	0.1 - 4%
CAS number: 586-62-9	EC number: 209-578-0
M factor (Acute) = 1	M factor (Chronic) = 1
Classification	
Skin Sens. 1 - H317	
Asp. Tox. 1 - H304	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove person to fresh air and keep comfortable for breathing. Maintain an open airway. Get medical attention if any discomfort continues.
Ingestion	Rinse mouth thoroughly with water. Aspiration hazard if swallowed. Do not induce vomiting. Get medical attention.
Skin contact	Wash skin thoroughly with soap and water or use an approved skin cleanser. Continue to rinse for at least 15 minutes and get medical attention.
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

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

General information Observe risk of aspiration if vomiting occurs.

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

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Notes for the doctor No data available.

SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable extinguishing media Use as appropriate carbon dioxide (CO₂), dry chemical or foam

Unsuitable extinguishing media For safety reasons do not use full water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards In case of fire, the following can be released: carbon monoxide (CO), carbon dioxide (CO₂), smoke, soot.

Hazardous combustion products Carbon dioxide (CO₂). Carbon monoxide (CO).

5.3. Advice for firefighters

Protective actions during firefighting Avoid breathing fire gases or vapours. Control run-off water by containing and keeping it out of sewers and watercourses.

Special protective equipment for firefighters Wear full protective clothing

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Personal precautions Ensure adequate ventilation of the working area, evacuate personnel to safe area, wear suitable protective equipment. Keep unnecessary and unprotected personnel away from the spillage. No smoking, sparks, flames or other sources of ignition near spillage. Avoid contact with skin, eyes and clothing. Avoid inhalation of dust and vapours. Wash thoroughly after dealing with a spillage.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb with liquid binding material (e.g sand, diatomaceous earth, acid or universal binding agents). Collect in closed and suitable containers for disposal. Never return spills in original containers for re-use. Wash spill site after material pick up is complete.

6.4. Reference to other sections**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Usage precautions Apply good manufacturing practice and industrial hygiene practices. Keep containers sealed when not in use. Use personal protection equipment as mentioned under "exposure controls and personal protection". Avoid contact with skin, eyes and clothing. Use only in well-ventilated areas. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not eat, drink or smoke when using this product. Do not empty into drains. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place.

7.3. Specific end use(s)**SECTION 8: Exposure Controls/personal protection**

PINE OIL SYLVESTRIS AUSTRIAN**8.1. Control parameters****Alpha Pinene (CAS: 80-56-8)**

DNEL	Workers - Inhalation; Long term systemic effects: 3.8 mg/m ³ Workers - Dermal; Long term systemic effects: 0.54 mg/kg, bw/day General population - Inhalation; Long term systemic effects: 0.67 mg/m ³ General population - Dermal; Long term systemic effects: 0.19 mg/kg, bw/day General population - Oral; Long term systemic effects: 0.19 mg/kg, bw/day
PNEC	- Fresh water; Short term 0.606 mg/l - Fresh water, Intermittent release; 3.03 mg/l - Marine water; Short term 0.061 mg/l - Intermittent release, Marine water; 0.303 mg/l - STP; Short term 0.2 mg/l - Sediment (Freshwater); Short term 157 mg/kg - Sediment (Marinewater); Short term 15.7 mg/kg - Soil; Short term 31.7 mg/kg

Beta Pinene (CAS: 127-91-3)

DNEL	Workers - Inhalation; Long term systemic effects: 5.69 mg/m ³ Workers - Dermal; Long term systemic effects: 0.8 mg/kg, bw/day General population - Inhalation; Long term systemic effects: 1 mg/m ³ General population - Dermal; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 mg/kg, bw/day
PNEC	- Fresh water; Short term 1.004 mg/l - Intermittent release, Fresh water; 5.02 mg/l - Marine water; Short term 0.1 mg/l - STP; Short term 3.26 mg/l - Sediment (Freshwater); Short term 0.337 mg/kg - Sediment (Marinewater); Short term 0.034 mg/kg - Soil; Short term 0.067 mg/kg

Delta-3-Carene (CAS: 13466-78-9)

DNEL	Workers - Inhalation; Long term systemic effects: 5.69 mg/m ³ Workers - Dermal; Long term systemic effects: 0.8 mg/kg, bw/day General population - Inhalation; Long term systemic effects: 1 mg/m ³ General population - Dermal; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg
PNEC	- Fresh water; Short term 0.44 mg/l - Marine water; Short term 0.044 mg/l - STP; Short term 3.26 mg/l - Sediment (Freshwater); Short term 104 mg/kg - Sediment (Marinewater); Short term 10.4 mg/kg - Soil; Short term 20.8 mg/kg

7-methyl-3-methyleneocta-1,6-diene (CAS: 123-35-3)

DNEL	Workers - Dermal; Long term systemic effects: 0.83 mg/kg Workers - Inhalation; Long term systemic effects: 5.83 mg/m ³ General population - Dermal; Long term systemic effects: 0.42 mg/kg General population - Inhalation; Long term systemic effects: 1.25 mg/m ³
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PNEC	<ul style="list-style-type: none"> - STP; 0.2 mg/l - Soil; 1.015 mg/kg - Fresh water; 0.00028 mg/l - Marine water; 0.0008 mg/l - Sediment (Freshwater); 5.022 mg/kg - Sediment (Marinewater); 0.502 mg/kg
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Camphene (CAS: 79-92-5)

DNEL	<p>Workers - Inhalation; Long term systemic effects: 110.19 mg/m³</p> <p>Workers - Inhalation; Short term systemic effects: 110.19 mg/m³</p> <p>Workers - Dermal; Long term systemic effects: 0.21 mg/kg, bw/day</p> <p>Workers - Dermal; Short term systemic effects: 1.25 bw/day, mg/kg</p> <p>General population - Inhalation; Long term systemic effects: 54.3 mg/m³</p> <p>General population - Inhalation; Short term systemic effects: 54.3 mg/m³</p> <p>General population - Dermal; Long term systemic effects: 0.1 bw/day, mg/kg</p> <p>General population - Dermal; Short term systemic effects: 0.625 bw/day, mg/kg</p> <p>General population - Oral; Long term systemic effects: 0.1 mg/kg, bw/day</p> <p>General population - Oral; Short term systemic effects: 0.625 bw/day, mg/kg</p>
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PNEC	<ul style="list-style-type: none"> - Fresh water; Short term 0.001 mg/l - Intermittent release, Fresh water; 0.001 mg/l - Marine water; Short term 0 mg/l - STP; Short term 10 mg/l - Sediment (Freshwater); Short term 0.026 mg/kg - Sediment (Marinewater); Short term 0.003 mg/kg - Soil; Short term 0.021 mg/kg
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a terpinolene (CAS: 586-62-9)

DNEL	<p>Workers - Inhalation; Long term systemic effects: 3.6 mg/m³</p> <p>Workers - Dermal; Long term systemic effects: 0.52 bw/day, mg/kg</p> <p>General population - Inhalation; Long term systemic effects: 0.9 mg/m³</p> <p>General population - Dermal; Long term systemic effects: 0.26 bw/day, mg/kg</p> <p>General population - Oral; Long term systemic effects: 0.26 bw/day, mg/kg</p>
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PNEC	<ul style="list-style-type: none"> - Fresh water; Short term 0.634 mg/l - Intermittent release, Fresh water; Short term 0.634 mg/l - Marine water; Short term 0.063 mg/l - STP; Short term 0.2 mg/l - Sediment (Freshwater); Short term 14.7 mg/kg - Sediment (Marinewater); Short term 14.7 mg/kg - Soil; Short term 29.1 mg/kg
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8.2. Exposure controls**Protective equipment**

Appropriate engineering controls

Provide eyewash station Provide adequate ventilation.

Personal protection

Use personal protection according to Directive 89/686/EEC

Eye/face protection

Approved safety goggles.

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Hand protection	Chemical resistant gloves (PVC)
Other skin and body protection	Wear apron or protective clothing in case of contact.
Hygiene measures	Good personal hygiene procedures should be implemented.
Respiratory protection	Generally unnecessary in a well ventilated area. If ventilation is insufficient, respiratory protection must be worn.
Environmental exposure controls	Avoid discharging into drains. Do not allow run-off fire fighting to enter drains or water courses.

SECTION 9: Physical and Chemical Properties**9.1. Information on basic physical and chemical properties**

Appearance	Liquid.
Colour	Colourless to pale yellow.
Odour	Characteristic.
Melting point	<-20°C
Initial boiling point and range	169.4°C @ 101.325 kPa
Flash point	≥ 37°C
Relative density	0.855 - 0.875 @ 20°C

9.2. Other information

Refractive index	1.465 - 1.480 @ 20°C
Optical Rotation	-30 to +10
Hydrocarbon Content	

SECTION 10: Stability and reactivity**10.1. Reactivity**

Reactivity	The substance is stable under normal storage and handling conditions.
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10.2. Chemical stability

Stability	Stable under the prescribed storage conditions.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	No potentially hazardous reactions known.
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10.4. Conditions to avoid

Conditions to avoid	Avoid heat, flames and other sources of ignition.
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10.5. Incompatible materials

Materials to avoid	Oxidising materials.
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10.6. Hazardous decomposition products

Hazardous decomposition products	When heated to decomposition, it emits acrid smoke, fumes as well as monoxide and carbon dioxide.
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SECTION 11: Toxicological information

PINE OIL SYLVESTRIS AUSTRIAN



11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ >5000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) No information available.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) No information available.

Skin corrosion/irritation

Skin corrosion/irritation May cause skin irritation.

Serious eye damage/irritation

Serious eye damage/irritation No data available.

Skin sensitisation

Skin sensitisation May cause an allergic skin reaction.

Aspiration hazard

Aspiration hazard May be fatal if swallowed and enters airways.

SECTION 12: Ecological Information

12.1. Toxicity

Toxicity No data available.

Toxicity to soil No data available.

12.2. Persistence and degradability

12.3. Bioaccumulative potential

12.4. Mobility in soil

Mobility No data available.

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Do not empty into drains. Avoid release to the environment.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 1272

UN No. (IMDG) 1272

UN No. (ICAO) 1272

UN No. (ADN) 1272

14.2. UN proper shipping name

Proper shipping name (ADR/RID) PINE OIL

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Proper shipping name (IMDG) PINE OIL

Proper shipping name (ICAO) PINE OIL

Proper shipping name (ADN) PINE OIL

14.3. Transport hazard class(es)

ADR/RID class 3

ADR/RID classification code F1

ADR/RID label 3

IMDG class 3

ICAO class/division 3

ADN class 3

Transport labels**14.4. Packing group**

ADR/RID packing group III

IMDG packing group III

ICAO packing group III

ADN packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS F-E, S-E

ADR transport category 3

Emergency Action Code 3Y

Hazard Identification Number (ADR/RID) 30

Tunnel restriction code (D/E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

EU legislation Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Guidance CHIP for everyone HSG228.

15.2. Chemical safety assessment**SECTION 16: Other information**

PINE OIL SYLVESTRIS AUSTRIAN

Revision date	05/06/2018
Revision	1
SDS number	5176
Hazard statements in full	H226 Flammable liquid and vapour. H228 Flammable solid. H302 Harmful if swallowed. 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. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.

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Product Specification

PRODUCT DETAILS		
Product Name	PINE OIL SYLVESTRIS AUSTRIAN	
Product Code	OEPINESYLV	
Tariff Number	33012941	
Country of Origin	Austria	
INCI Name	Pinus Sylvestris L.	
Natural Status	We hereby declare, to the best of our knowledge and from information received from our supplier, that this product is in accordance to the requirements of Articles 3 (2) (d) of Regulation (EC) 1334/2008 and therefore can be designated as natural. This product does not contain any solvents or additives.	
Food Grade Status	We confirm, from information received from our supplier, that this product conforms with EU Regulations and can be used in food.	
Kosher Certified	No but can be added	
Halal Certified	We hereby declare, from information received from our supplier, that this product does not contain any ingredient derived from animal origin, extracted from hair or feathers, animal fats, animal extracts, blood of any origin, blood plasma, pork and/or other meat products. This product does not contain alcohol (ethanol or grain alcohol) and has not been used in the manufacturing process.	
GMO Declaration	To the best of our knowledge and from information received from our supplier, this product does not derive from genetically modified starting raw material, or additives that are derived from genetically modified organisms.	
Manufacturing Process	Pine Sylvestris Oil Austrian is the volatile oil expressed from the needles of the Pinus Sylvestris L.	
Identification	CAS No: 84012-35-1	EINECS No: 281-679-2
	Alternative CAS: 8023-99-2	
PHYSICAL AND CHEMICAL CHARACTERISTIC		
Appearance	Liquid	
Colour	Colourless to Pale Yellow	
Odour	Characteristic	
Relative Density @ 20°C	0.855 - 0.875	
Refractive Index @ 20°C	1.465 - 1.480	
Optical Rotation °	-30 to +10	
Flash Point °C	≥37	
Melting Point °C	<-20	
Boiling Point °C	169.4°C @ 101.325 kPa	
FRAGRANCE ALLERGENS		
Limonene (5989-54-8) 4 - 15%		
FOOD ALLERGENS		
NONE PRESENT		
IFRA		
NONE PRESENT		
STORAGE		
Storage	Store in tightly closed container with minimum headspace in a cool, dark and dry place.	

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Vegan and Vegetarian Statement

IDENTIFICATION

Product:	PINE OIL SYLVESTRIS AUSTRIAN
Cas No:	84012-35-1
EINECS No:	281-679-2

STATEMENT

We, MADAR Corporation Limited, from information received from our supplier, hereby declare that the material listed above is compliant with a vegan diet.

It does not contain any animal ingredients or animal by products. No animal ingredients or by products are used in the manufacturing process.

This document represents to the best of our knowledge and from information received from our supplier. It does not release the buyer from the obligation to carry out an examination of the goods received. All uses made by the buyer are done under their own responsibility.