



Certificate of Analysis

PRODUCT DETAILS					
Product Name	TEA TREE				
Product Code	OETEATREE				
INCI name	Melaleuca alternifolia oil				
Country of Origin	China				
Batch Number	4372105				
Best Before End	September 2022				
Manufacturing Process	Steam distillation of twigs and branches of Melaleuca alternifolia				
Identification	CAS No: 85085-48-9	EINECS No: 285-377-1			
	Alternative Cas: 68647-73-4	FEMA: 3902			
PHYSICAL AND CHEMICAL CHARACTERISTIC					
	SPECIFICATION RANGES	RESULTS			
Appearance	Liquid	Conforms			
Colour	Colourless to pale yellow	Conforms			
Odour	Camphoraceous	Conforms			
Relative Density @ 20°C	0.8850 - 0.9060	0.8965			
Refractive Index @ 20°C	1.4730 - 1.4820	1.4762			
Flash Point °C	56-59°C	Conforms			
Optical Rotation °	+5 to +15	+5.74			
Hydrocarbon content	50%	Conforms			
Auto Ignition Temperature	269°C	Conforms			
MAIN CONSTITUENTS					
Constituent Range	Result	Constituent Range	Result	Constituent Range	Result
Terpinene-1-ol-4 (>30%)	41%	p-mentha-1,4-diene (10-28%)	20.90%	Alpha Terpinen (5-13%)	10.20%
a-terpinolene(1-5%)	2.50%	A pinene (1-6%)	4.00%	1,8 cineole (<15%)	1.60%
p-cymene (0.5-12%)	2.90%	Limonene (0.5-4%)	2.60%	sabinene (<3.5%)	0.20%
Aromadendrene (<7%)	2.70%	globulol (<1%)	ND	Viridiflorol (<1%)	ND
STORAGE AND SHELF LIFE					
Storage	Store in tightly closed container with minimum headspace in a cool, dark and dry place.				

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**SAFETY DATA SHEET
TEA TREE**

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

1.1. Product identifier

Product name	TEA TREE
Product number	OETEATREE
Synonyms; trade names	Melaleuca alternifolia oil
CAS number	85085-48-9
Alternative Cas Number	68647-73-4
EC number	285-377-1

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

Identified uses	Topical antibacterial, antiseptic and anti inflammatory agent
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1.3. Details of the supplier of the safety data sheet

Supplier

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

Approved sellers

Cosmetic Butters, Mystic Moments, New Directions, World of Moulds

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 Eye Irrit. 2 - H319 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. Causes serious eye irritation.
Environmental	Toxic to aquatic life with long lasting effects.
Physicochemical	Flammable liquid and vapour.

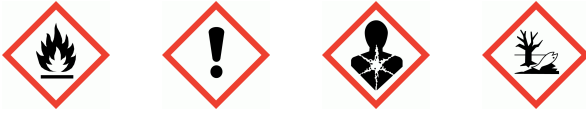
2.2. Label elements

EC number

285-377-1
BiOrigins, 19-20 Sandleheath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA, UK
Tel: 01425 655555 Email: technical@madarcorporation.co.uk

TEA TREE

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.
 H319 Causes serious eye irritation.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

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.
 P305+P351+P338 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.
 P391 Collect spillage.
 P262 Do not get in eyes, on skin, or on clothing.

Contains

p-mentha-1,4-diene, Alpha Terpinene, a terpinolene, Alpha Pinene, 1, 8 cineole, p-Cymene, (S)-p-mentha-1,8-diene

Supplementary precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 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.
 P261 Avoid breathing vapour/ spray.
 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.
 P337+P313 If eye irritation persists: 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.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P405 Store locked up.
 P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Terpinene-1-ol-4	>30%
CAS number: 562-74-3 EC number: 209-235-5	
Classification Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319	
p-mentha-1,4-diene	10-28%
CAS number: 99-85-4 EC number: 202-794-6	
Classification Flam. Liq. 3 - H226 Asp. Tox. 1 - H304	
Alpha Terpinene	5-13%
CAS number: 99-86-5 EC number: 202-795-1	
Classification Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411	
a terpinolene	1-5%
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	
p-menth-1-en-8-ol	1.5-8%
CAS number: 98-55-5 EC number: 202-680-6	
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319	

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Alpha Pinene	1-6%
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	
1, 8 cineole	<15%
CAS number: 470-82-6	EC number: 207-431-5
Classification Flam. Liq. 3 - H226 Skin Sens. 1B - H317	
p-Cymene	0.5-12%
CAS number: 99-87-6	EC number: 202-796-7
Classification Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Asp. Tox. 1 - H304	
(S)-p-mentha-1,8-diene	0.5-4%
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	

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

General information

Individuals contaminated by chemical exposure must be taken for medical attention if any adverse effect occurs. Take a copy of the label and SDS to the health professional with contaminated individual.

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Inhalation	Remove person to fresh air and keep comfortable for breathing. Do not induce vomiting. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention if any discomfort continues.
Ingestion	Do not induce vomiting. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

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

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards This product is flammable and vapours may travel some distance and flash back if ignited.

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

5.3. Advice for firefighters

Protective actions during firefighting Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk, otherwise keep containers cool with carefully applied water spray/mist. If possible, prevent runoff water from entering storm drains, bodies of water or other environmentally sensitive areas.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions No smoking, sparks, flames or other sources of ignition near spillage. Avoid contact with skin, eyes and clothing. Provide adequate ventilation.

6.2. Environmental precautions

Environmental precautions Prevent run off into drains and waterways.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Contain and absorb spillage with sand, earth or other non-combustible material. Collect and place in suitable waste disposal containers and seal securely. Ventilate area and wash spill area after material pick up is complete.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8.

TEA TREE

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. Read label before use. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Provide adequate general and local exhaust ventilation. Remove contaminated clothing and wash the skin thoroughly with soap and water after work.

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. Protect from sunlight. Ground container and receiving equipment, use only non sparking tools and use explosion proof electrical equipment.

7.3. Specific end use(s)

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

a terpinolene (CAS: 586-62-9)

DNEL	Workers - Inhalation; Long term systemic effects: 3.6 mg/m ³ Workers - Dermal; Long term systemic effects: 0.52 bw/day, mg/kg General population - Inhalation; Long term systemic effects: 0.9 mg/m ³ General population - Dermal; Long term systemic effects: 0.26 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.26 bw/day, mg/kg
PNEC	- 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

p-menth-1-en-8-ol (CAS: 98-55-5)

PNEC	- Fresh water; Short term 68 mg/l - Marine water; Short term 6.8 mg/l - STP; Short term 2.6 mg/l - Sediment (Freshwater); Short term 1.85 mg/kg - Sediment (Marinewater); Short term 0.185 mg/kg - Soil; Short term 0.329 mg/kg
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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
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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

1, 8 cineole (CAS: 470-82-6)

DNEL	Workers - Inhalation; Long term systemic effects: 7.05 mg/m ³
	Workers - Dermal; Long term systemic effects: 2 mg/kg, bw/day
	General population - Inhalation; Long term systemic effects: 1.74 mg/m ³
	General population - Dermal; Long term systemic effects: 1 bw/day, mg/kg
	General population - Oral; Long term systemic effects: 600 bw/day, mg/kg
PNEC	- Fresh water; Short term 5.7 mg/l
	- Intermittent release, Fresh water; 0.57 mg/l
	- Marine water; Short term 5.7 mg/l
	- STP; Short term 10 mg/l
	- Sediment (Freshwater); Short term 1.425 mg/kg
	- Sediment (Marinewater); Short term 0.142 mg/kg
	- Soil; Short term 0.25 mg/kg

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

In case of insufficient ventilation, wear suitable respiratory equipment. Provide eyewash station

Personal protection

General protective and hygienic measures: Use personal protective equipment depending on concentration and amount of hazardous substance. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with eyes and skin.

Eye/face protection

Approved safety goggles.

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.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Colourless to pale yellow.
Odour	Camphoraceous

TEA TREE

Initial boiling point and range	97-220°C
Flash point	56-59°C PMCC (Pensky-Martens closed cup).
Relative density	0.8850 - 0.9060 @ 20°C
Auto-ignition temperature	269°C
Viscosity	2.86 m ² /s @ 20°C 1.71 m ² /s @ 40°C

9.2. Other information

Refractive index	1.4730 - 1.4820 @ 20°C
Optical Rotation	+5 to +15°c
Hydrocarbon Content	50%

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	None known.
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10.2. Chemical stability

Stability	Stable at normal ambient temperatures.
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10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

Conditions to avoid	Keep away from heat, sparks and open flame.
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10.5. Incompatible materials

Materials to avoid	Strong oxidising agents. Strong reducing agents.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Carbon dioxide (CO ₂). Carbon monoxide (CO). Hydrocarbons
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀)	LD ₅₀ 1900 mg/kg, Oral, Rat
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Acute toxicity - dermal

Notes (dermal LD₅₀)	LD ₅₀ >5000 mg/kg, Dermal, Rabbit
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Serious eye damage/irritation

Serious eye damage/irritation	Mild irritant. May cause redness, irritation or oedema.
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Respiratory sensitisation

Respiratory sensitisation	Potential irritant. Over exposure at high levels may result in mucous membrane irritation of the nose and throat with coughing.
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Skin sensitisation

Skin sensitisation	Potential irritant. May cause erythema, irritation or oedema if oil is oxidised. Repeated or prolonged skin contact may lead to allergic contact dermatitis.
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Carcinogenicity

Carcinogenicity	Carcinogenicity in humans is not expected.
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Aspiration hazard

Aspiration hazard May be harmful if swallowed. May result in allergic dermatitis, hallucination, ataxia, diarrhoea, central nervous system depression, sleep or coma.

SECTION 12: Ecological Information

Ecotoxicity Toxic to aquatic life with long lasting effects.

12.1. Toxicity

12.2. Persistence and degradability

Persistence and degradability The product is readily biodegradable.

12.3. Bioaccumulative potential

12.4. Mobility in soil

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 contents/container in accordance with local regulations.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID)	1169
UN No. (IMDG)	1169
UN No. (ICAO)	1169
UN No. (ADN)	1169

14.2. UN proper shipping name

Proper shipping name (ADR/RID) EXTRACTS, AROMATIC, LIQUID

Proper shipping name (IMDG) EXTRACTS, AROMATIC, LIQUID

Proper shipping name (ICAO) EXTRACTS, AROMATIC, LIQUID

Proper shipping name (ADN) EXTRACTS, AROMATIC, LIQUID

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



TEA TREE

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-D
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

Revision date	07/08/2017
Revision	1
SDS number	5008
Hazard statements in full	H226 Flammable liquid and vapour. 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	TEA TREE	
Product Code	OETEATREE	
Tariff Number	33012941	
INCI name	Melaleuca alternifolia oil	
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.	
Kosher Certified	Yes	
Halal Certified	We hereby delcare, 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	Steam distillation of twigs and branches of Melaleuca alternifolia	
Identification	CAS No: 85085-48-9	EINECS No: 285-377-1
	Alternative Cas: 68647-73-4	FEMA: 3902
PHYSICAL AND CHEMICAL CHARACTERISTIC		
Appearance	Liquid	
Colour	Colourless to pale yellow	
Odour	Camphoraceous	
Relative Density @ 20°C	0.8850 - 0.9060	
Refractive Index @ 20°C	1.4730 - 1.4820	
Flash Point °C	56-59°C	
Optical Rotation °	+5 to +15	
Hydrocarbon content	50%	
Auto Ignition Temperature	269°C	
FRAGRANCE ALLERGENS		
Limonene (5989-54-8) 0.5-4%	Linalool (78-70-6) <1%	
FOOD ALLERGENS		
NONE PRESENT		
IFRA		
NONE PRESENT		
STORAGE AND SHELF LIFE		
Storage	Store in tightly closed container with minimum headspace in a cool, dark and dry place.	

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Vegan Statement

IDENTIFICATION	
Product:	Tea Tree
Cas No:	85085-48-9
EINECS No:	285-377-1
STATEMENT	
<p>We, MADAR Corporation Limited, from information received from our supplier, hereby declare that the material listed above is compliant with a vegan diet.</p> <p>It does not contain any animal ingredients or animal by products. No animal ingredients or by products are used in the manufacturing process.</p> <p>10th January 2019</p> <p>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.</p>	