



# KERFOOT

**Avril** GROUP

## MATERIAL SAFETY DATA SHEET According to EU Regulation 1907/2006

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION & THE COMPANY/UNDERTAKING)

#### 1.1 PRODUCT IDENTIFIER

<b>Product Name</b>	Cinnamon Essential Bark Oil
<b>Biological Definition</b>	The volatile oil expressed from the bark of the Ceylon Cinnamon, <i>Cinnamomum zeylanicum</i> , Lauraceae..
<b>INCI Name</b>	Cinnamomum Zeylanicum Bark Oil.
<b>Synonyms &amp; Trade Names</b>	-
<b>Internal Product Code</b>	R00125
<b>CAS Number</b>	84649-98-9
<b>EC Number</b>	283-479-0
<b>EINECS Number</b>	283-479-0
<b>REACH Status</b>	Exempt

#### 1.2 DETAILS OF THE SUPPLIER OF THE MATERIAL SAFETY DATA SHEET

<b>Company</b>	Kerfoot Avril Group The Olive House Standard Way Industrial Estate, Darlington Road, Northallerton, North Yorkshire, England DL6 2XA
<b>Emergency Telephone Number</b>	01609 766790



# KERFOOT

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## SECTION 2: HAZARD IDENTIFICATION


### 2.1 CLASSIFICATION OF THE SUBSTANCES OR MIXTURE

No additional data available.

<b>Classification (EU 1272/2008)</b>	Acute dermal toxicity, Category 4 (Acute Tox. 4, H312). Skin irritation, Category 2 (Skin Irrit. 2, H315). Eye irritation, Category 2 (Eye Irrit. 2, H319). Skin sensitisation, Category 1A (Skin Sens. 1A, H317). Hazardous to the aquatic environment - Chronic hazard, Category 3 (Aquatic Chronic 3, H412). This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.
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### 2.2 LABEL ELEMENTS

Label in accordance with Regulation (EC) No 1272/2008

<b>GHS Label:</b>	 GHS07
<b>Signal word:</b>	Warning
<b>Contains</b>	EC 202-589-1 EUGENOL EC 207-431-5 EUCALYPTOL EC 227-813-5 D-LIMONENE EC 201-291-9 ALPHA-PINENE X EC 203-212-3 CINNAMIC ALCOHOL EC 204-872-5 B-PINENE
<b>Hazard Statements:</b>	H312 Harmful in contact with skin. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects. lasting effects.
<b>Precautionary Statements:</b>	P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
<b>Supplementary Precautionary Statements:</b>	None.

### 2.3 OTHER HAZARDS

<b>PBT or vPvB according to Annex XIII</b>	The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.
<b>Adverse physio-chemical properties</b>	No additional data available.
<b>Adverse effects on human health</b>	The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) $\geq$ 0.1% published by the European Chemicals Agency (ECHA) under article 57 of REACH: <a href="http://echa.europa.eu/fr/candidate-list-table">http://echa.europa.eu/fr/candidate-list-table</a>

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 MIXTURE

<b>50 - 100% Cinnamic aldehyde</b> Classification (EC 1272/2008)	Cas: 104-55-2      EC: 203-213-9 GHS07, Wng Acute Tox. 4, H312, Eye Irrit. 2, H319, Skin Irrit. 2, H315 Skin Sens. 1A, H317
<b>2.5 - 10% Eugenol</b> Classification (EC 1272/2008)	Cas: 97-53-0      EC: 202-589-1 GHS07, Wng Eye Irrit. 2, H319, Skin Sens. 1B, H317
<b>2.5 - 10% Eucalyptol</b> Classification (EC 1272/2008)	Cas: 470-82-6      EC: 207-431-5 GHS02, GHS07, Wng Flam. Liq. 3, H226, Skin Sens. 1B, H317



<b>2.5 - 10% Linalool</b> Classification (EC 1272/2008)	Cas: 78-70-6      EC: 201-134-4 GHS07, Wng Eye Irrit. 2, H319, Skin Irrit. 2, H315
<b>≤ 2.5% A-Phellandrene</b> Classification (EC 1272/2008)	Cas: 99-83-2      EC: 202-792-5 GHS08, GHS02, Dgr Asp. Tox. 1, H304, Flam. Liq. 3, H226,
<b>≤ 2.5% Para Cymene</b> Classification (EC 1272/2008)	Cas: 99-87-6      EC: 202-796-7 GHS08, GHS02, GHS09, Dgr Asp. Tox. 1, H304, Flam. Liq. 3, H226, Aquatic Chronic 2, H411
<b>≤ 2.5% Alpha Terpineol</b> Classification (EC 1272/2008)	Cas: 98-55-5      EC: 202-680-6 GHS07, Wng Eye Irrit. 2, H319, Skin Irrit. 2, H315
<b>≤ 2.5% d-Limonene</b> Classification (EC 1272/2008)	Cas: 5989-27-5      EC: 227-813-5 GHS08, GHS02, GHS07, GHS09, Dgr Asp. Tox. 1, H304, Flam. Liq. 3, H226, Skin Irrit. 2, H315 Skin Sens. 1B, H317, Aquatic Acute 1, H400, M Acute = 1 Aquatic Chronic 1, H410, M Chronic = 1
<b>≤ 2.5% Benzyl Benzoate</b> Classification (EC 1272/2008)	Cas: 120-51-4      EC: 204-402-9 GHS07, GHS09, Wng Acute Tox. 4, H302, Aquatic Chronic 2, H411
<b>≤ 2.5% Camphene</b> Classification (EC 1272/2008)	Cas: 79-92-5      EC: 201-234-8 GHS02, GHS07, GHS09, Wng Eye Irrit. 2, H319, Flam. Sol. 2, H228, Aquatic Acute 1, H400 M Acute = 1, Aquatic Chronic 1, H410, M Chronic = 1
<b>≤ 2.5% Alpha Pinene X</b> Classification (EC 1272/2008)	Cas: 80-56-8      EC: 201-291-9 GHS08, GHS02, GHS07, Dgr Asp. Tox. 1, H304, Flam. Liq. 3, H226, Skin Irrit. 2, H315 Skin Sens. 1B, H317
<b>≤ 2.5% Cinnamic Alcohol</b> Classification (EC 1272/2008)	Cas: 104-54-1      EC: 204-212-3 GHS07, Wng Skin Sens. 1B, H317
<b>≤ 2.5% B Pinene</b> Classification (EC 1272/2008)	Cas: 127-91-3      EC: 204-872-5 GHS08, GHS02, GHS07, Dgr Asp. Tox. 1, H304, Flam. Liq. 3, H226, Skin Irrit. 2, H315 Skin Sens. 1B, H317

## SECTION 4: FIRST AID MEASURES

### 4.1 DESCRIPTION OF FIRST AID MEASURES

<b>Inhalation</b>	Move the exposed person to fresh air at once. Seek medical attention if discomfort continues.
<b>Ingestion</b>	Do not give the patient anything orally. In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor. Seek medical attention immediately, showing the label.
<b>Skin Contact</b>	Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner. Remove any soiled or splashed clothing immediately. Watch out for any remaining product between skin and clothing, watches, shoes, etc. In the event of an allergic reaction, seek medical attention. If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.
<b>Eye Contact</b>	Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open. If there is any redness, pain or visual impairment, consult an ophthalmologist.

### 4.2 MOST IMPORTANT SYMPTOMS. BOTH ACCUTE AND DELAYED.

No additional data available.

### 4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT IF NEEDED

No additional data available.

## SECTION 5: FIRE FIGHTING MEASURES



## 5.1 EXTINGUISHING MEDIA

Non flammable

Extinguishing media: Carbon dioxide (CO<sub>2</sub>). Dry Chemical Powder. Foam.

Unsuitable extinguishing media: Do not use direct water jet on burning material.

## 5.2 SPECIAL HAZARDS ARISING FROM THE PRODUCT

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health. Do not breathe in smoke.

In the event of a fire, the following may be formed:

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)

## 5.3 ADVICE FOR FIRE FIGHTERS

No additional data available.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Consult the safety measures listed under headings 7 and 8.

For non first aid worker      Avoid any contact with the skin and eyes.

For first aid worker      First aid workers will be equipped with suitable personal protective equipment (See section 8).

### 6.2 ENVIRONMENTAL PRECAUTIONS

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal. Prevent any material from entering drains or waterways.

### 6.3 METHODS AND MATERIAL FOR CONTAMINATED AND CLEANING UP

Soak up spillage with sand or other inert material. Transfer soaked material to suitable waste container and dispose according to local authority regulations. Clean preferably with a detergent, do not use solvents.

### 6.4 REFERENCES TO OTHER SECTIONS

See sections 7 & 8.

## SECTION 7: HANDLING AND STORAGE

### 7.1 PRECAUTIONS FOR SAFE HANDLING

Requirements relating to storage premises apply to all facilities where the mixture is handled.

Individuals with a history of skin sensitisation should not, under any circumstance, handle this mixture.

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

#### Fire prevention

Prevent access by unauthorised personnel.

#### Recommended equipment and procedures

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid skin and eye contact with this mixture.

#### Prohibited equipment and procedures

No smoking, eating or drinking in areas where the mixture is used.

### 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Always keep in packaging made of an identical material to the original.

### 7.3 SPECIFIC END USE(S)

No additional data available.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION



## 8.1 CONTROL PARAMETERS

Occupational exposure limits :

ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010)

CAS	TWA	STEL	Ceiling	Definition	Criteria
80-56-8	20 ppm		SEN; A4		
127-91-3	20 ppm		SEN; A4		

Germany - AGW (BAuA - TRGS 900, 21/06/2010)

CAS	VME	VME	Excess Notes
5989-27-5		5 ppm 28 mg/m <sup>3</sup>	

Derived no effect level (DNEL) or derived minimum effect level (DMEL)

LINALOOL (CAS: 78-70-6)

Final use:	Workers.
Exposure method:	Dermal contact.
Potential health effects:	Short term systemic effects.
DNEL :	5 mg/kg body weight/day
Exposure method:	Dermal contact.
Potential health effects:	Short term local effects.
DNEL :	15 mg of substance/cm <sup>2</sup>
Exposure method:	Dermal contact.
Potential health effects:	Long term systemic effects.
DNEL :	2.5 mg/kg body weight/day
Exposure method:	Dermal contact.
Potential health effects:	Long term local effects.
DNEL :	15 mg of substance/cm <sup>2</sup>
Exposure method:	Inhalation.
Potential health effects:	Short term systemic effects.
DNEL :	16.5 mg of substance/m <sup>3</sup>
Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.
DNEL :	2.8 mg of substance/m <sup>3</sup>
Final use:	Consumers.
Exposure method:	Ingestion.
Potential health effects:	Short term systemic effects.
DNEL :	1.2 mg/kg body weight/day
Exposure method:	Ingestion.
Potential health effects:	Long term systemic effects.
DNEL :	0.2 mg/kg body weight/day
Exposure method:	Dermal contact
Potential health effects:	Short term systemic effects.
DNEL :	2.5 mg/kg body weight/day
Exposure method:	Dermal contact.
Potential health effects:	Short term local effects.
DNEL :	15 mg of substance/cm <sup>2</sup>
Exposure method:	Dermal contact.
Potential health effects:	Long term systemic effects.
DNEL :	1.25 mg/kg body weight/day
Exposure method:	Dermal contact.
Potential health effects:	Long term local effects.
DNEL :	15 mg of substance/cm <sup>2</sup>
Exposure method:	Inhalation.
Potential health effects:	Short term systemic effects.
DNEL :	4.1 mg of substance/m <sup>3</sup>
Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.
DNEL :	0.7 mg of substance/m <sup>3</sup>

Predicted no effect concentration (PNEC)


LINALOOL (CAS: 78-70-6)

Environmental compartment:	Soil.
PNEC :	0.327 mg/kg
Environmental compartment:	Fresh water.
PNEC :	0.2 mg/l
Environmental compartment:	Sea water.
PNEC :	0.02 mg/l
Environmental compartment:	Intermittent waste water.



PNEC :	2 mg/l
Environmental compartment:	Fresh water sediment.
PNEC :	2.22 mg/kg
Environmental compartment:	Marine sediment.
PNEC :	0.222 mg/kg
Environmental compartment:	Waste water treatment plant.
PNEC :	10 mg/l

## 8.2 EXPOSURE CONTROLS

<b>Protective equipment</b>	
<b>Process Conditions</b>	No additional data available.
<b>Engineering Measures</b>	No additional data available.
<b>Respiratory Equipment</b>	Ensure area is well ventilated. Avoid vapour inhalation.
<b>Hand Protection</b>	Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374. Gloves must be selected according to the application and duration of use at the workstation. Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required. Recommended properties : - Impervious gloves in accordance with standard EN374
<b>Eye Protection</b>	Avoid contact with eyes. Use eye protectors designed to protect against liquid splashes. Before handling, wear safety goggles with protective sides accordance with standard EN166. In the event of high danger, protect the face with a face shield. Prescription glasses are not considered as protection. Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours. Provide eyewash stations in facilities where the product is handled constantly.
<b>Other Protection</b>	Avoid inhalation of the product. Avoid contact with skin and eyes.
<b>Hygiene Measures</b>	Good personal hygiene practices are always advisable, especially when working with chemicals / oils.
<b>Personal Protection</b>	Use personal protective equipment that is clean and has been properly maintained. Store personal protective equipment in a clean place, away from the work area. Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.
<b>Skin Protection</b>	Avoid skin contact. Wear suitable protective clothing. Suitable type of protective clothing : In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact. In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact. Work clothing worn by personnel shall be laundered regularly. After contact with the product, all parts of the body that have been soiled must be washed.
<b>Environmental Exposure Controls</b>	Avoid discharging into drainage water.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 INFORMATION ON BASIS PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Mobile Liquid
<b>Colour</b>	Clear yellow
<b>Odour</b>	Characteristic, spicy cinnamon



<b>Specific Gravity @ 20°C</b>	1.000 – 1.040
<b>Refractive Index @ 20°C</b>	1.573 – 1.600
<b>Flash Point (°C)</b>	60°C < FP <= 93°C
<b>Melting Point (°C)</b>	No additional data available.
<b>Boiling Point (°C)</b>	No additional data available.
<b>Vapour Pressure</b>	No additional data available.
<b>Solubility in Water @20°C</b>	Sparingly soluble in water. Soluble in oil.
<b>Auto-ignition temperature (°C)</b>	No additional data available.

## 9.2 OTHER INFORMATION

No additional data available.



## SECTION 10: STABILITY AND REACTIVITY

### 10.1 REACTIVITY

Stable under normal handling conditions.

### 10.2 CHEMICAL STABILITY

Chemically stable under the recommended handling and storage conditions.

### 10.3 POSSIBLE HAZARD REACTIONS

No additional data available.

### 10.4 CONDITIONS TO AVOID

No additional data available.

### 10.5 INCOMPATIBLE MATERIALS

No additional data available.

### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

The product does not decompose under normal conditions. Liable to cause smoke & acrid fumes during combustion: carbon monoxide, carbon dioxide & other non-identified organic compounds may be formed.

## SECTION 11: TOXOLOGICAL INFORMATION

### 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

<b>Acute toxicity</b>	<p>Harmful in contact with skin. May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours. May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days. May cause an allergic reaction by skin contact.</p> <p>Acute Toxicity</p> <p>CINNAMIC ALCOHOL (CAS: 104-54-1) Oral route : LD50 = 2500 mg/kg ALPHA-PINENE X (CAS: 80-56-8) Oral route : LD50 = 3500 mg/kg ALPHA-TERPINEOL (CAS: 98-55-5) Oral route : LD50 = 4300 mg/kg PARA-CYMENE (CAS: 99-87-6) Oral route : LD50 = 4750 mg/kg LINALOOL (CAS: 78-70-6) Oral route : LD50 = 2790 mg/kg EUCALYPTOL (CAS: 470-82-6) Oral route : LD50 = 2480 mg/kg EUGENOL (CAS: 97-53-0) Oral route : LD50 = 2300 mg/kg CINNAMIC ALDEHYDE * (CAS: 104-55-2) Oral route : LD50 = 2500 mg/kg Dermal route : LD50 = 1100 mg/kg</p>
<b>Skin corrosion / irritation</b>	No additional data available.
<b>Serious eye damage/irritation</b>	No additional data available.
<b>Respiratory or skin sensitisation</b>	No additional data available.
<b>Germ cell mutagenicity</b>	No additional data available.
<b>Carcinogenicity</b>	CAS 97-53-0 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans. CAS 5989-27-5 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.
<b>Reproductive toxicity</b>	No additional data available.
<b>STOT-single exposure</b>	No additional data available.
<b>STOT-repeated exposure</b>	No additional data available.
<b>Aspiration hazard</b>	No additional data available.
<b>Photo-toxicity</b>	No additional data available.
<b>Other information:</b>	No additional data available.





## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 TOXICITY

Harmful to aquatic life with long lasting effects.  
The product must not be allowed to run into drains or waterways.

### 12.2 PERSISTENCE AND 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 VPOB ASSESSMENT

No additional data available.

### 12.6 OTHER ADVERSE EFFECTS

Do not allow product to enter streams, sewers or other waterways.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 WASTE TREATMENT METHODS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

#### Waste treatment methods

Do not pour into drains or waterways.

#### Waste

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals. Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company. Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

#### Soiled packaging

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor

## SECTION 14: TRANSPORT INFORMATION

### 14.1 UN NUMBER

<b>UN No. Road</b>	Not regulated for transport.
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<b>UN No. Sea</b>	Not regulated for transport.
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<b>UN No. Air</b>	Not regulated for transport.
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### 14.2 UN PROPER SHIPPING NAME

Not applicable.

### 14.3 TRANSPORT HAZARD CLASS(ES)

Not regulated for transport.

### 14.4 PACKAGING GROUP

None

### 14.5 ENVIRONMENTAL HAZARDS

Not applicable.

### 14.6 SPECIAL PRECAUTIONS FOR USER

No additional data available.



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## 14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 AND THE IBC CODE

No additional data available

## SECTION 15: REGULATORY INFORMATION

### 15.1 SAFETY, HEALTH AND ENVIRONMENT 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.

## SECTION 16: OTHER INFORMATION

<b>Hazard and/or Precautionary Statements in Full</b>	None
<b>Other Information</b>	Complies with REACH guidance for SDS as circulated by ECHA 2011.
<b>Version</b>	1
<b>Revision Date</b>	29th May 2018
<b>Reason for Revision</b>	New MSDS

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